A2000-2-U

Annual Statistical Report

AMERICAN
IRON AND STEEL
INSTITUTE

1991

RIGHT MAKES MIGHT
MCMVIII
COOPERATIO

AMERICAN IRON AND STEEL INSTITUTE
1101 17TH STREET, N.W., WASHINGTON, D.C. 20036

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NOTES

D—Disclosure
P—Preliminary
R—Revised
n.a.—Not available
Net ton—2,000 pounds
Gross ton—2,240 pounds
( ) Indicates loss or negative number.
Rounded figures do not necessarily add to totals.

Raw steel is defined as steel in the first solid state after melting suitable for further processing or sale, including ingots, steel for foundry castings and strand or pressure cast blooms, billets, slabs, or other product forms.

Raw steel production capability is defined as the tonnage capability to produce raw steel for a sustained full order book.

SELECTED HIGHLIGHTS
THE IRON AND STEEL INDUSTRY AT A GLANCE

The Selected Statistical Highlights present a ten-year trend from which comparisons of year-to-year changes may be made for those items of the industry that are indicative of the operating level and the financial status of reporting companies. In the use of the highlights, it should be recognized that there may be a difference in the universe of reporting companies for the major items in the statistical section. This is especially significant for the financial series as compared to other series; for example, the universe for financial data for 1990 and 1991 represents companies who in 1991 produced 68% of the reported raw steel production.

SELECTED STATISTICAL HIGHLIGHTS

Table 1A

Shipments, Apparent Supply, Imports and Employment

(Thousands)

	Steel Mill Products-Net Tons				Imports as % of U.S. Apparent Steel Supply					Steel Employment (a)
Year	Total Net Shipments	Less Exports	Plus Imports	U.S. Apparent Steel Supply	Total	Japan	EEC	Canada	Other	Average No. of Employees
1991	78,846	6,346	15,845	88,345	17.9	3.2	5.3	3.3	6.1	146
1990	84,981	4,303	17,169	97,847	17.5	3.2	5.6	3.0	5.7	164
1989	84,100	4,578	17,321	96,843	17.9	3.8	5.8	3.1	5.2	169
1988	83,840	2,069	20,891	102,662	20.3	4.2	6.1	3.1	6.9	169
1987	76,654	1,129	20,414	95,940	21.3	4.5	6.0	3.8	7.0	163
1986	70,263	929	20,692	90,026	23.0	4.9	7.3	3.6	7.2	175
1985	73,043	932	24,256	96,367	25.2	6.2	7.2	3.0	8.8	208
1984	73,739	980	26,163	98,922	26.4	6.7	6.4	3.2	10.1	236
1983	67,584	1,199	17,070	83,455	20.5	5.1	4.9	2.9	7.6	243
1982	61,567	1,842	16,663	76,388	21.8	6.8	7.3	2.4	5.3	289
Details on Page:	26	40	50	...	53	53	53	53	53	15

(a) Covering only those employees engaged in the production and sale of iron and steel products and excludes mining and quarrying operations, transportation, warehousing, fabrication and other non-steel producing activities.

Table 1B

Raw Steel Data

(Thousands of net tons)

		United States				Percent of U.S. Production				
						By Type of Furnace			By Type Cast	
Year	World Production	Production	% of World	Capability	% of Capability	OH	BOP	Elec.	Ingots	Continuous
1991	809,440	87,896	10.9	117,600	74.7	1.6	60.0	38.4	24.1	75.8
1990	848,812	98,906	11.6	116,700	84.7	3.5	59.1	37.4	32.5	67.4
1989	865,310	97,943	11.3	115,900	84.5	4.5	59.6	35.9	35.1	64.8
1988	858,932	99,924	11.6	112,000	89.2	5.1	58.0	36.9	38.6	61.3
1987	811,367	89,151	11.0	112,200	79.5	3.0	58.9	38.1	40.1	59.8
1986	786,625	81,606	10.3	127,000	63.8	4.1	58.7	37.2	44.7	55.2
1985	792,945	88,259	11.1	133,600	66.1	7.3	58.8	33.9	55.5	44.4
1984	782,590	92,528	11.8	135,300	68.4	9.0	57.1	33.9	60.3	39.6
1983	730,930	84,615	11.6	150,600	56.2	7.0	61.5	31.5	67.8	32.1
1982	710,738	74,577	10.5	154,000	48.4	8.2	60.7	31.1	70.9	29.0
Details on Page:	108	70	108	...	73	70	70	70	71	71

SELECTED FINANCIAL HIGHLIGHTS

Table 1C

Income Data

(Millions of Dollars)

Year	Steel Segment Results Net Sales	Net Income Amount	Net Income % of Net Sales
1991	$27,270	($2,072)	-7.6
1990r	30,635	54	0.2
1989	31,525	1,597	5.0
1988	32,466	(567)	-1.7
1987	26,933	1,077	4.0
1986	24,875	(4,150)	-16.7
1985	28,272	(1,834)	-6.5
1984	30,005	(31)	-0.1
1983	24,463	(2,231)	-9.1
1982	28,239	(3,384)	-12.0
Details on Page:	8	8	8

Table 1D

Cash Flow Data

(Millions of Dollars)

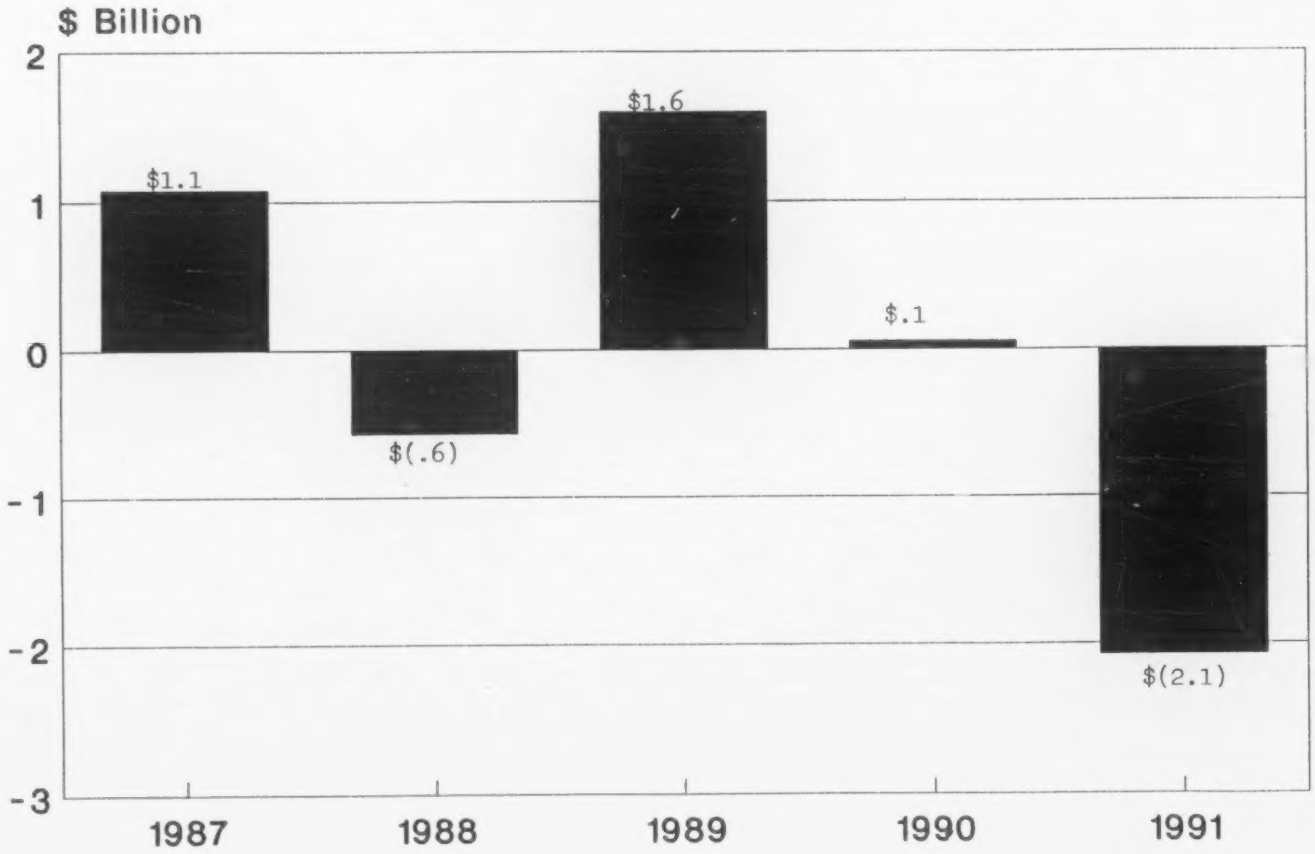
Year	Steel Segment Results Capital Expend.	Net Cash Provided (Used) from Operations	Net Cash Provided (Used) from Financing	Inc.(Dec.) In Cash & Mkt.Secs.
1991	$2,332	($1,605)	$1,300	($305)
1990r	2,592	(889)	(170)	(1,060)
1989	2,273	1,001	(734)	266
1988	1,839	726	(397)	328
1987	1,164	725	(541)	184
1986	862	1,439	(1,239)	200
1985	1,641	(427)	353	(74)
1984	1,203	(428)	296	(132)
1983	1,850	(1,858)	1,556	(302)
1982	2,258	(1,990)	1,766	(224)
Details on Page:	10	10	10	10

FINANCIAL STATISTICS

Financial data for 1990 and 1991 includes companies which made up 68% of the reported total raw steel production of the entire industry in 1991. Other years are based on results of companies representing varying percentages of the entire industry.

The financial tables included are for the Steel Segments of the businesses only. These statements representing the steel industry are statistical only, since the allocation of some items on the balance sheet, such as long term debt, deferred taxes and equity between steel and non-steel operations, requires each participating company to exercise judgement based on its individual facts and circumstances.

Net Income



Companies representing 68% of 1991
Raw Steel Production.

Table 2
Income Statement
Steel Segment
(Millions of Dollars)

	1991	1990r	1989	1988	1987	1986	1985	1984	1983	1982
REVENUES:										
Sales (Net Billing Value of Products Shipped and Other Services)	$27,270.2	$30,635.2	$31,524.9	$32,465.7	$26,932.7	$24,875.2	$28,272.3	$30,005.2	$24,462.8	$28,238.6
Interest, Dividends & Other Income	177.0	302.8	268.6	205.2	154.2	160.8	162.2	328.1	514.8	492.0
Total Revenue	27,447.2	30,938.0	31,793.5	32,670.9	27,086.9	25,036.0	28,434.4	30,333.3	24,977.6	28,730.6
COSTS:										
Employment Costs	8,458.6	8,569.0	8,283.2	8,847.4	7,762.4	7,543.7	8,822.3	9,334.5	8,650.8	12,199.4
Materials, Supplies, Freight and Other Services	17,830.5	19,105.0	19,286.1	18,958.4	16,083.3	15,364.1	18,034.2	18,779.7	15,664.6	17,181.9
Depreciation, Depletion & Amortization	1,276.4	1,336.9	1,319.5	1,311.2	1,294.1	1,301.1	1,343.8	1,374.7	1,290.5	1,471.6
Interest & Other Financial Costs	611.4	537.4	533.3	462.4	538.5	637.0	713.4	774.3	616.5	600.0
Taxes Other than Income	397.0	404.4	371.5	372.0	375.9	378.7	362.7	359.9	371.2	NA
Loss or (Gain) on Sales of Assets	(23.5)	(65.9)	(3.5)	(46.5)	(1.4)	(45.6)	0.3	(309.9)	(20.0)	2,021.4
Loss or (Gain) Attributable to Shutdown or Restructuring of Facilities	810.1	599.0	32.1	81.6	170.8	631.5	966.9	112.8	1,508.1	---
Unusual Items	499.9	284.5	88.1	1,390.2	(197.3)	3,813.5	77.2	77.8	24.5	(24.8)
Taxes on Income	(320.3)	275.2	353.1	312.4	(87.9)	(448.3)	(35.4)	21.0	(720.4)	(1,335.1)
Total Costs	29,540.1	31,045.5	30,263.4	31,689.1	25,938.5	29,175.8	30,285.4	30,524.8	27,385.8	32,114.4
Extraordinary and Other Items Net of Taxes	21.2	161.9	66.7	(1,549.2)	(71.4)	(10.1)	16.9	161.0	177.1	NA
NET INCOME	($2,071.7)	$54.4	$ 1,596.8	($567.4)	$ 1,077.0	($4,149.9)	($1,834.0)	($30.5)	($2,231.1)	($3,383.8)
Percent Return on Sales	(7.6)	0.2	5.0	(1.7)	4.0	(16.7)	(6.5)	(0.1)	(9.1)	(12.0)

Totals do not necessarily add due to rounding.

MEMO: In 1991 reporting companies represent 59.7 million net tons of raw steel production and 49.3 million net tons of shipments of finished steel products.

Table 3
Balance Sheet
Steel Segment
(Millions of Dollars)

ASSETS	1991	1990r	1989	1988	1987	1986	1985	1984	1983	1982
Current Assets:										
Cash & Marketable Securities	$ 623.2	$ 927.7	$ 1,220.3	$ 948.4	$ 614.7	$ 423.1	$ 237.5	$ 402.1	$ 606.9	$ 952.5
Receivables, Less Allowances	3,273.9	3,998.3	3,579.0	4,266.7	3,796.4	2,863.7	3,117.5	3,213.0	3,408.3	2,727.5
Inventories	4,414.3	4,688.0	4,005.2	3,843.4	3,351.5	3,045.8	3,546.2	4,216.5	3,320.7	4,034.4
Other Current Assets	197.7	143.7	108.6	112.0	179.1	129.7	116.8	198.8	204.7	226.5
Total Current Assets	8,509.1	9,757.7	8,913.1	9,170.4	7,941.6	6,462.3	7,018.0	8,030.4	7,540.6	7,940.9
Long-Term Receivables & Other Investments	1,706.9	1,611.6	932.9	741.8	838.9	755.8	903.1	1,047.5	1,700.0	N.A.
Fixed Assets:										
Property, Plant & Equipment	33,797.2	33,312.0	31,386.5	32,089.3	31,710.1	32,614.0	33,927.7	35,198.4	34,283.2	38,518.5
Less-Depreciation, Depletion & Amortization	17,816.9	17,825.4	17,417.0	18,621.8	18,620.0	19,185.7	18,236.3	18,589.0	18,401.8	20,681.5
Net Fixed Assets	15,980.3	15,486.6	13,969.5	13,467.5	13,090.1	13,428.3	15,691.4	16,609.4	15,881.4	17,837.0
Other Assets	1,603.9	1,400.6	875.9	806.9	327.2	309.9	337.6	499.6	349.3	2,101.3
Total Assets	$27,800.2	$28,256.5	$24,691.4	$24,186.6	$22,197.8	$20,956.3	$23,950.1	$26,186.9	$25,471.3	$27,879.2
LIABILITIES & STOCKHOLDERS' EQUITY										
Current Liabilities:										
Accounts Payable	$ 2,590.2	$ 2,685.0	$ 2,424.1	$ 2,426.8	$ 2,339.0	$ 1,658.1	$ 2,158.1	$ 2,261.4	$ 2,287.6	$ N.A.
Accrued Taxes incl. Federal Income Taxes	579.8	571.2	522.2	525.9	566.2	403.6	508.6	485.1	385.5	N.A.
Long-Term Debt Maturing Within One Year	467.7	351.1	319.5	279.9	296.3	300.1	294.4	571.4	255.9	197.8
All Other Current Liabilities	2,281.5	2,374.2	2,262.5	2,210.0	2,028.8	1,674.8	2,564.7	2,392.0	2,726.8	5,136.4
Total Current Liabilities	5,919.2	5,981.5	5,528.3	5,442.7	5,230.4	4,036.6	5,525.8	5,709.9	5,655.8	5,334.2
Long-Term Debt Less Amount Maturing Within One Year	6,174.0	5,170.7	4,358.3	5,148.4	5,388.4	5,409.4	6,874.6	6,380.0	7,208.2	7,817.9
Deferred Income Tax	302.0	324.8	294.8	268.7	205.9	177.4	188.2	277.1	264.2	750.2
Liabilities Attributable to Shutdown or Restructuring of Facilities	1,416.4	1,286.5	1,588.0	845.1	1,282.2	1,488.9	2,089.3	2,019.7	2,085.7	N.A.
All Other Long-Term Liabilities & Reserves	10,928.5	10,779.8	10,692.2	10,160.2	6,981.3	7,185.9	2,087.2	2,138.2	1,809.8	2,697.3
Minority Interest in Companies not Wholly Owned.	23.9	21.9	22.0	19.9	18.3	14.8	17.4	22.8	18.2	19.5
Total Liabilities	24,764.0	23,565.2	22,483.6	21,885.0	19,106.4	18,313.0	16,782.5	16,547.7	17,041.9	16,619.1
Redeemable Preferred Stock (RPS)	378.2	354.3	143.8	64.8	127.6	226.6	226.5	228.2	228.3	---
Stockholders' Equity	2,658.0	4,337.0	2,064.0	2,236.9	2,963.8	2,416.7	6,941.1	9,411.0	8,201.1	11,260.1
Total Liabilities, RPS & Stockholders' Equity	$27,800.2	$28,256.5	$24,691.4	$24,186.6	$22,197.8	$20,956.3	$23,950.1	$26,186.9	$25,471.3	$27,879.2
Memo: LIFO Inventory Reserves Included Above	$ 1,707.5	$ 1,756.0	$ 1,800.6	$ 2,029.9	$ 1,866.1	$ 2,195.2	$ 3,026.8	$ 3,497.6	$ 2,750.6	$ 5,101.7

Table 4

Cash Flow Statement
Steel Segment

(Millions of Dollars)

	1991	1990r	1989	1988	1987	1986	1985	1984	1983	1982
Cash Provided From Operations:										
Net Income	($2,071.7)	$54.4	$ 1,596.8	($567.4)	$ 1,077.0	($4,131.9)	($1,803.0)	($92.7)	($2,235.0)	($3,384.4)
Depreciation	1,288.4	1,349.3	1,319.5	1,310.6	1,295.3	1,301.1	1,343.7	1,373.0	1,292.1	1,481.2
Deferred Income Taxes	(140.9)	597.9	29.0	39.1	25.5	(485.5)	(55.4)	42.8	(722.9)	(854.4)
Other Non Cash P&L Items	1,306.5	522.2	107.5	2,978.2	24.6	4,622.6	1,017.0	156.2	1,366.2	2,036.6
Total from Earnings	382.3	2,523.8	3,052.8	3,760.5	2,373.3	1,306.3	502.2	1,479.3	(299.6)	(721.0)
Changes in Working Capital	806.2	(472.8)	462.4	(326.5)	(359.0)	965.8	527.1	(829.0)	(94.1)	1,677.3
Cash Provided from Operations	1,188.5	2,051.0	3,515.2	3,434.0	2,014.2	2,272.0	1,029.4	650.3	(393.7)	956.3
Cash Provided (Used) for Non Operating Units	(20.3)	(30.6)	(16.1)	(7.3)	8.4	(40.6)	(115.3)	(145.6)	(160.6)	63.3
Cash (Used) for Dividends	(162.1)	(195.6)	(260.2)	(218.5)	(189.9)	(120.5)	(138.7)	(201.5)	(203.3)	(413.8)
Long-Term Investments:										
Additions to Plant & Equipment	(2,331.5)	(2,591.7)	(2,272.6)	(1,838.5)	(1,163.9)	(862.0)	(1,640.9)	(1,203.1)	(1,850.2)	(2,258.2)
Disposals of Plant & Equipment	103.8	219.2	278.6	184.0	81.7	505.5	293.1	210.7	48.5	602.8
Other Provided (Used)	(383.3)	(341.7)	(244.3)	(828.2)	(25.9)	(315.2)	145.6	260.9	701.0	(940.6)
Cash (Used) from Operations	(2,611.0)	(2,714.2)	(2,238.3)	(2,482.6)	(1,108.0)	(671.7)	(1,202.3)	(731.5)	(1,100.7)	(2,596.0)
Net Cash Provided (Used) from Operations	(1,604.9)	(889.4)	1,000.6	725.6	724.7	1,439.2	(426.9)	(428.3)	(1,858.3)	(1,990.2)
Cash Provided From (Used for) Financing										
Net Additions/Reductions In:										
Transfers (to) from Corporate	(58.6)	(28.7)	(97.6)	(252.6)	(322.7)	(865.9)	(299.8)	(435.4)	46.5	(242.6)
Long Term Debt	1,075.3	(367.7)	(588.4)	(390.8)	(351.8)	(88.5)	504.4	62.4	524.1	1,814.7
Short Term Debt	63.2	198.2	(38.6)	73.8	(36.9)	(384.6)	(15.0)	524.7	51.3	106.7
Stock	220.5	28.1	(10.0)	172.4	170.3	99.9	162.9	144.4	934.1	87.2
Net Cash Provided from (used for) Financing	1,300.4	(170.1)	(734.6)	(397.2)	(541.2)	(1,239.1)	352.5	296.1	1,556.0	1,766.0
Increase (Decrease) in Cash & Marketable Securities	($304.5)	($1,059.5)	$ 266.0	$ 328.4	$ 183.6	$ 200.1	($74.4)	($132.2)	($302.3)	($224.2)

EMPLOYMENT AND WAGE DATA

The data on number of employees, hours worked, employment cost, payroll cost per hour and employment cost per hour as shown on tables 5 and 6 cover those employees engaged in the operation of coke ovens, blast furnaces, steel-making furnaces and finishing mills, etc. and the sale of products thereof as reported by companies comprising about 72% of 1991 total raw steel production.

Indexes on output per man-hour in the iron and steel industry are those compiled by the United States Department of Labor, Bureau of Labor Statistics.

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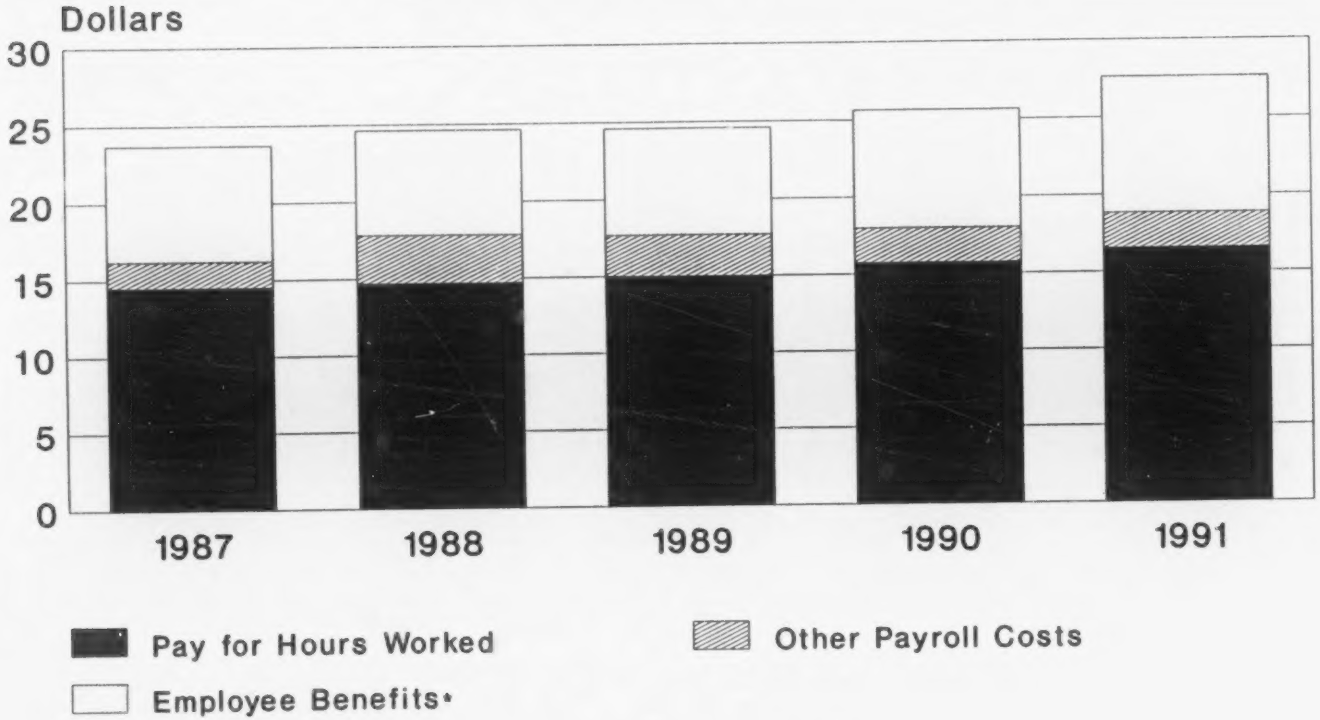
Total Employment Cost Per Hour

Wage Employees



•Includes cost for retired employees as well as active.

Table 5

Total Employment Cost per Hour Worked–Wage Employees

(Covering those employees engaged in the production and sale of iron and steel products)

	Pay for Hours Worked						Memo	Other Payroll Costs						
	Straight Time					Subtotal								
Year	Regular	Shift Differ-ential	Sunday Premium	Overtime Premium	Premium For Work On Holidays	Pay for Hours Worked	Average Hourly Earnings In Steel (BLS)	Pay for Holidays Not Worked	Vacation Pay	All Other**	Total Payroll Cost Per Hour	Employee* Benefits Cost Per Hour	Total Employ-ment Cost Per Hour	Year
1991	$14.763	$0.163	$0.486	$0.863	$0.280	$16.555	$16.21	$0.349	$1.468	$0.459	$18.831	$8.808	$27.639	1991
1990	13.890	0.161	0.439	0.974	0.264	15.728	15.59	0.282	1.277	0.695	17.982	7.642	25.624	1990
1989	13.369	0.156	0.319	0.910	0.247	15.001	15.00	0.251	1.142	1.296	17.690	6.929	24.620	1989
1988	13.076	0.151	0.320	0.915	0.237	14.699	14.72	0.231	1.042	1.851	17.823	6.825	24.647	1988
1987	13.034	0.151	0.302	0.800	0.242	14.529	14.54	0.255	1.038	0.399	16.221	7.486	23.707	1987
1986	13.224	0.157	0.294	0.671	0.284	14.630	14.53	0.301	1.109	0.179	16.219	7.023	23.242	1986
1985	13.023	0.157	0.244	0.574	0.274	14.272	13.98	0.339	1.269	0.117	15.997	6.815	22.812	1985
1984	12.570	0.158	0.234	0.514	0.255	13.731	13.53	0.312	1.135	0.165	15.343	5.955	21.298	1984
1983	12.548	0.156	0.255	0.409	0.259	13.627	13.40	0.366	0.968	0.133	15.094	7.119	22.213	1983
1982	13.012	0.157	0.375	0.276	0.235	14.055	13.96	0.499	2.165	0.089	16.808	6.973	23.781	1982

*Includes cost for retired employees as well as active.

**Includes profit sharing, gain sharing, stock plans, etc.

Table 6

Number of Employees, Hours Worked and Employment Cost

(Covering those employees engaged in the production and sale of iron and steel products)

	Employees Receiving Wages					Employees Receiving Salaries			All Employees Receiving Wages and Salaries					
Year	Average Number of Em-ployees	Total Hours Worked (000)	Avg Hrs. Worked Per Week Per Em-ployee	Em-ployment Cost (millions)	Total Em-ployment Cost Per Hour	Average Number of Em-ployees	Total Hours Worked (000)	Em-ployment Cost (millions)	Average Number of Em-ployees	Total Hours Worked (000)	Avg Hrs. Worked Per Week Per Em-loyee	Em-ployment Cost (millions)	Total Employment Cost Per Hour	Year
1991	105,045	217,717	39.8	$6,017.4	$27.639	41,095	86,315	$2,543.1	146,140	304,032	39.9	$8,560.5	$28.157	1991
1990	119,683	256,426	41.1	6,570.7	25.624	44,280	94,059	2,660.5	163,963	350,486	41.0	9,231.1	26.338	1990
1989	124,218	265,820	41.0	6,544.4	24.620	44,635	94,599	2,592.5	168,853	360,420	40.9	9,136.9	25.351	1989
1988	125,289	271,053	41.4	6,680.7	24.647	43,608	92,344	2,514.5	168,898	363,397	41.2	9,195.2	25.304	1988
1987	120,865	261,631	41.5	6,202.5	23.707	42,473	92,509	2,378.0	163,338	354,140	41.6	8,580.4	24.229	1987
1986	128,418	259,173	38.7	6,023.8	23.242	46,365	96,719	2,362.9	174,783	355,892	39.1	8,386.7	23.565	1986
1985	150,906	300,456	38.2	6,854.1	22.812	57,262	118,292	2,887.0	208,168	418,747	38.6	9,741.1	23.262	1985
1984	170,694	339,228	38.0	7,224.9	21.298	65,308	134,838	3,119.5	236,002	474,067	38.4	10,344.4	21.821	1984
1983	168,852	324,997	36.9	7,219.1	22.213	73,893	149,814	3,459.4	242,745	474,811	37.5	10,678.5	22.490	1983
1982	198,477	345,093	33.3	8,206.6	23.781	90,960	180,535	4,197.9	289,437	525,628	34.8	12,404.5	23.599	1982

Memo:Net shipments (thousand net tons) for companies reporting employment data are as follows:

Year	(000 NT)	Year	(000 NT)
1991	55,407	1986	54,352
1990	62,123	1985	60,482
1989	63,192	1984	62,158
1988	63,807	1983	57,139
1987	59,071	1982	51,825

Table 7

BLS Index of Output per Man-hour in the Steel Industry

(All Employees)

Year	1982=100
1991	180.1
1990	185.4
1989	179.4
1988	184.6
1987	167.6
1986	156.1
1985	153.4
1984	144.5
1983	128.8
1982	100.0
1981	123.2
1980	113.2
Compound Annual Percent Change 1980-1991	4.3%

Source: United States Department of Labor, Bureau of Labor Statistics
NOTE: Although the output per man-hour data relate output to one input-labor time-they do not measure the specific contribution of labor, of capital, or of any other factor to production. In short, they do not reflect solely changes in the productiveness of labor. Rather, they reflect the joint effect of a number of interrelated influences such as changes in technology, capital investment per worker, utilization of capacity, layout and flow of material, skill of the work force, managerial skill, and labor-management relations.

Table 8

Occupational Injury/Illness

(Covering only those employees who were engaged in the production of iron and steel products as reported by companies comprising 68% of total 1991 raw steel production)

	1991	1990	1989	1988	1987
1. Aggregate number of man-hours (millions)	288	321	337	346	330
2. OSHA recordable injuries/illnesses:					
a. Fatalities	13	12	15	17	16
b. Lost workday cases	6,402	7,204	8,000	8,249	7,175
c. Other medical treatment cases	12,404	14,014	14,683	16,646	15,950
d. Total (2a through 2c)	18,819	21,230	22,698	24,912	23,141
3. Frequency rate (number of injuries/illnesses per 200,000 man-hours worked)	13.090	13.217	13.489	14.410	14.029
4. OSHA workdays lost (thousands)	202	202	224	224	200
5. Severity rate (days lost per 200,000 man-hours worked)	141	126	133	130	121

NOTE: Recordable injuries are reported as specified by the Bureau of Labor Statistics, U.S. Department of Labor pursuant to Section 24(a) of the Occupational Safety and Health Act of 1970.

The U.S. Department of Labor, Bureau of Labor Statistics issued revised record keeping guidelines for Occupational Injury and Illness effective April 1986.

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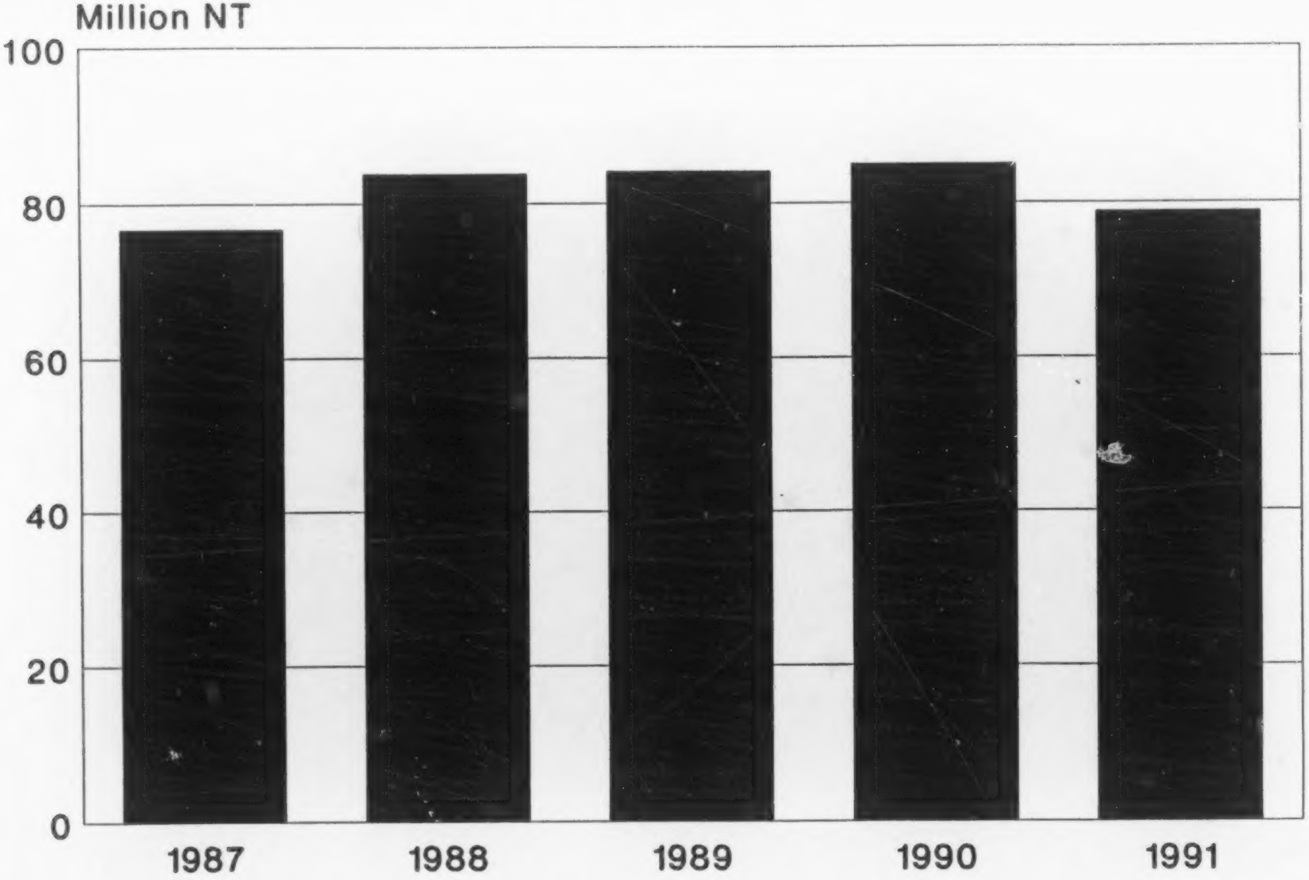
SHIPMENTS—STEEL PRODUCTS

Data in this section are expressed in terms of Gross Shipments and Net Shipments. Gross shipments represent the aggregate tonnage shipped by reporting companies including steel consumed by the companies in their own construction, maintenance, repair and operations, as well as in their own manufacture of fabricated products. Net shipments eliminate tonnage duplication by deducting from the gross total those shipments from one reporting company to another reporting company for conversion, further processing or resale.

Shipments of Steel Mill Products



Shipments by Market Classification

Year 1991 % of Total Shipments

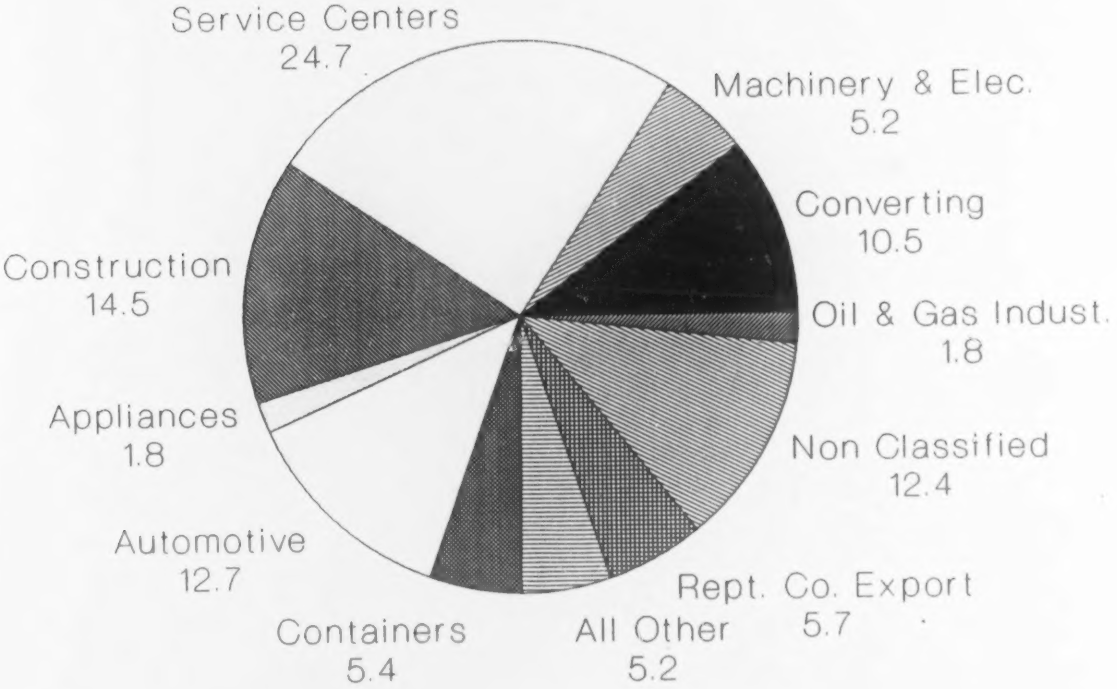


Table 9

Shipments of Steel Mill Products–1991
All Grades–(Carbon, Alloy and Stainless)

(Net Tons)

Steel Mill Products	Total Gross Shipments	Less Shipments to Reporting Companies	Total Net Shipments	Percent of Total Net Shipments
Ingots and steel for castings	252,735	8,603	244,132	0.3
Blooms, slabs, billets	3,029,355	724,526	2,304,829	2.9
Wire rods	4,374,313	8,718	4,365,595	5.5
Total Semi–Finished	7,656,403	741,847	6,914,556	8.8
Structural shapes (3″ & over)	5,245,400	77	5,245,323	6.7
Steel piling	430,463	...	430,463	0.5
Plates - Cut Lengths	4,323,636	48,300	4,275,336	5.4
Plates - In Coils	3,097,334	430,264	2,667,070	3.4
Total Shapes and Plates	13,096,833	478,641	12,618,192	16.0
Rails - Standard (over 60 lb)	381,564	...	381,564	0.5
- All other	15,819	...	15,819	0.0
Railroad accessories	88,802	...	88,802	0.1
Total Rails and Accessories	486,185	...	486,185	0.6
Bars–Hot rolled	5,839,898	408,691	5,431,207	6.9
–Bar–Size light shapes	1,157,226	...	1,157,226	1.5
–Reinforcing	4,859,547	...	4,859,547	6.2
–Cold finished	1,342,072	730	1,341,342	1.7
Total Bars	13,198,743	409,421	12,789,322	16.2
Tool Steel	52,567	1,377	51,190	0.1

Pipe and tubing-Standard Pipe	976,326	6,744	969,582	1.2
-Oil country goods	1,077,280	...	1,077,280	1.4
-Line	1,439,326	661	1,438,665	1.8
-Mechanical	746,403	2,479	743,924	0.9
-Pressure	49,456	...	49,456	0.1
-Structural	150,878	43	150,835	0.2
-Pipe for piling	24,039	...	24,039	0.0
-Stainless	34,244	11	34,233	0.0
Total Pipe and Tubing	4,497,952	9,938	4,488,014	5.7
Wire-Drawn and/or Rolled	865,131	39	865,092	1.1
Black plate	274,140	25,429	248,711	0.3
Tin plate	2,753,660	...	2,753,660	3.5
Tin free steel	963,645	...	963,645	1.2
Tin coated sheets	73,858	...	73,858	0.1
Total Tin Mill Products	4,065,303	25,429	4,039,874	5.1
Sheets-Hot rolled	13,955,240	794,715	13,160,525	16.7
-Cold rolled	11,673,058	141,541	11,531,517	14.6
Sheets & Strip-Galvanized-Hot dipped	6,912,333	2,530	6,909,803	8.8
-Electrolytic	2,099,681	511	2,099,170	2.7
-All other metallic coated	1,147,394	909	1,146,485	1.5
-Electrical	457,610	...	457,610	0.6
Strip-Hot rolled	539,406	6,493	532,913	0.7
-Cold rolled	760,651	5,412	755,239	1.0
Total Sheets and Strip	37,545,373	952,111	36,593,262	46.4
Total	81,464,490	2,618,803	78,845,687	100.0

Table 10

Shipments of Steel Mill Products–1991
By Grades–(Carbon, Alloy and Stainless)

(Net Tons)

Steel Mill Products	Carbon	%	Alloy	%	Stainless	%	Total	%
Ingots and steel for castings	114,015	0.2	120,220	3.1	9,897	0.7	244,132	0.3
Blooms, slabs, billets	1,913,736	2.6	321,246	8.2	69,847	4.8	2,304,829	2.9
Wire rods	4,254,179	5.8	77,494	2.0	33,922	2.3	4,365,595	5.5
Total Semi–Finished	6,281,930	8.5	518,960	13.2	113,666	7.8	6,914,556	8.8
Structural shapes (3" & over)	5,235,682	7.1	9,641	0.2	–	–	5,245,323	6.7
Steel piling	430,463	0.6	–	–	–	–	430,463	0.5
Plates – Cut Lengths	3,848,635	5.2	329,601	8.4	97,100	6.7	4,275,336	5.4
Plates – In Coils	2,580,886	3.5	5,396	0.1	80,788	5.6	2,667,070	3.4
Total Shapes and Plates	12,095,666	16.5	344,638	8.8	177,888	12.3	12,618,192	16.0
Rails–Standard (over 60 lb)	381,564	0.5	–	–	–	–	381,564	0.5
–All other	15,819	0.0	–	–	–	–	15,819	0.0
Railroad accessories	88,802	0.1	–	–	–	–	88,802	0.1
Total Rails and Accessories	486,185	0.7	–	–	–	–	486,185	0.6
Bars–Hot rolled	3,799,914	5.2	1,591,811	40.6	39,482	2.7	5,431,207	6.9
–Bar–Size light shapes	1,157,226	1.6	–	–	–	–	1,157,226	1.5
–Reinforcing	4,859,547	6.6	–	–	–	–	4,859,547	6.2
–Cold finished	1,047,168	1.4	199,251	5.1	94,923	6.6	1,341,342	1.7
Total Bars	10,863,855	14.8	1,791,062	45.7	134,405	9.3	12,789,322	16.2
Tool Steel	–	–	51,190	1.3	–	–	51,190	0.1

Pipe and tubing–Standard Pipe	969,582	1.3	–	–	–	–	969,582	1.2
–Oil country goods	800,685	1.1	276,595	7.1	–	–	1,077,280	1.4
–Line	1,438,665	2.0	–	–	–	–	1,438,665	1.8
–Mechanical	478,725	0.7	265,199	6.8	–	–	743,924	0.9
–Pressure	37,829	0.1	11,627	0.3	–	–	49,456	0.1
–Structural	150,835	0.2	–	–	–	–	150,835	0.2
–Pipe for piling	24,039	0.0	–	–	–	–	24,039	0.0
–Stainless	–	–	–	–	34,233	2.4	34,233	0.0
Total Pipe and Tubing	3,900,360	5.3	553,421	14.1	34,233	2.4	4,488,014	5.7
Wire–Drawn and/or Rolled	801,590	1.1	40,012	1.0	23,490	1.6	865,092	1.1
Black plate	248,711	0.3	–	–	–	–	248,711	0.3
Tin plate	2,753,660	3.7	–	–	–	–	2,753,660	3.5
Tin free steel	963,645	1.3	–	–	–	–	963,645	1.2
Tin coated sheets	73,858	0.1	–	–	–	–	73,858	0.1
Total Tin Mill Products	4,039,874	5.5	–	–	–	–	4,039,874	5.1
Sheets–Hot rolled	13,008,551	17.7	67,518	1.7	84,456	5.8	13,160,525	16.7
–Cold rolled	10,866,679	14.8	11,870	0.3	652,968	45.1	11,531,517	14.6
Sheets & Strip–Galvanized–Hot dipped	6,909,803	9.4	–	–	–	–	6,909,803	8.8
–Electrolytic	2,099,170	2.9	–	–	–	–	2,099,170	2.7
–All other metallic coated	1,146,485	1.6	–	–	–	–	1,146,485	1.5
–Electrical	21	0.0	457,589	11.7	–	–	457,610	0.6
Strip–Hot rolled	474,267	0.6	53,468	1.4	5,178	0.4	532,913	0.7
–Cold rolled	505,303	0.7	27,411	0.7	222,525	15.4	755,239	1.0
Total Sheets and Strip	35,010,279	47.6	617,856	15.8	965,127	66.6	36,593,262	46.4
Total Net Shipments	73,479,739	100.0	3,917,139	100.0	1,448,809	100.0	78,845,687	100.0
Shipments to reporting companies	2,315,208	–	139,554	–	164,041	–	2,618,803	–
Total Gross Shipments	75,794,947	–	4,056,693	–	1,612,850	–	81,464,490	–

Table 11

Net Shipments of Steel Mill Products-All Grades

(Thousands of net tons)

Steel Products	1991		1990		1989		1988		1987	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Ingots and steel for castings	244	0.3	344	0.4	352	0.4	385	0.5	381	0.5
Blooms, slabs, billets	2,305	2.9	1,643	1.9	1,731	2.1	1,542	1.8	1,212	1.6
Skelp	•	...	•	...	•	...	•	...	22	...
Wire Rods	4,366	5.5	4,326	5.1	4,153	4.9	4,048	4.8	3,840	5.0
Structural shapes (3" & over)	5,245	6.7	5,670	6.7	4,987	5.9	4,860	5.8	4,839	6.3
Steel piling	430	0.5	423	0.5	368	0.4	349	0.4	280	0.4
Plates Cut Lengths	4,275	5.4	5,132	6.0	5,087	6.0	5,044	6.0	4,048	5.3
Plates In Coils	2,667	3.4	2,813	3.3	2,297	2.7	2,284	2.7	••	...
Rails-Standard (over 60 lb)	382	0.5	407	0.5	458	0.5	460	0.5	351	0.5
-All other	16	0.0	12	0.0	9	0.0	37	0.0	15	...
Railroad accessories	89	0.1	99	0.1	95	0.1	118	0.1	62	0.1
Wheels (rolled and forged)	•	...	•	...	•	...	•	...	58	0.1
Axles	•	...	•	...	•	...	•	...	29	...
Bars-Hot rolled	5,431	6.9	6,655	7.8	6,301	7.5	6,460	7.7	6,048	7.9
-Bar-Size light shapes	1,157	1.5	1,222	1.4	1,316	1.6	1,373	1.6	1,190	1.6
-Reinforcing	4,859	6.2	5,305	6.2	5,015	6.0	5,091	6.1	4,918	6.4
-Cold finished	1,341	1.7	1,486	1.7	1,472	1.8	1,499	1.8	1,361	1.8
Tool Steel	51	0.1	58	0.1	67	0.1	64	0.1	58	0.1
Pipe and tubing-Standard Pipe	970	1.2	1,185	1.4	1,175	1.4	1,238	1.5	969	1.3
-Oil country goods	1,077	1.4	1,219	1.4	909	1.1	1,130	1.3	919	1.2
-Line	1,439	1.8	1,123	1.3	871	1.0	808	1.0	620	0.8
-Mechanical	744	0.9	863	1.0	806	1.0	901	1.1	767	1.0
-Pressure	49	0.1	49	0.1	49	0.0	59	0.1	72	0.1
-Structural	151	0.2	137	0.2	121	0.0	178	0.2	180	0.2
-Pipe for piling	24	0.0	35	0.0	32	0.0	74	0.1	...	...
-Stainless	34	0.0	41	0.0	48	0.1	55	0.1	42	0.1
Wire-Drawn	865	1.1	918	1.1	1,002	1.2	1,073	1.3	800	1.0
-Nails and staples	•	...	•	...	•	...	•	...	218	0.3
-Barbed and twisted	•	...	•	...	•	...	•	...	49	0.1
-Woven wire fence	•	...	•	...	•	...	•	...	13	...
-Bale ties and baling wire	•	...	•	...	•	...	•	...	25	...

Black plate	249	0.3	270	0.3	311	0.4	283	0.3	205	0.3
Tin plate	2,754	3.5	2,773	3.3	2,788	3.3	2,806	3.3	2,765	3.6
Tin free steel	964	1.2	909	1.1	934	1.1	899	1.1	939	1.2
Tin coated sheets	74	0.1	79	0.1	93	0.1	81	0.1	79	0.1
Sheets-Hot rolled	13,161	16.7	13,388	15.8	13,281	15.8	12,969	15.4	13,048	17.0
-Cold rolled	11,532	14.6	13,199	15.5	13,854	16.5	13,871	16.5	13,859	18.1
Sheets & Strip-Galvanized-Hot dipped	6,910	8.8	7,878	9.3	8,543	10.2	8,115	9.7	7,660	10.0
-Electrolytic	2,099	2.7	2,066	2.4	2,151	2.6	2,134	2.5	1,432	1.9
-All other metallic coated	1,146	1.5	1,259	1.5	1,377	1.6	1,262	1.5	1,228	1.6
-Electrical	458	0.6	486	0.6	484	0.6	524	0.6	465	0.6
Strip-Hot rolled	533	0.7	692	0.8	702	0.8	823	1.0	657	0.9
-Cold rolled	755	1.0	816	1.0	870	1.0	941	1.1	929	1.2
Total Steel Mill Products	78,846	100.0	84,981	100.0	84,100	100.0	83,840	100.0	76,654	100.0
Carbon	73,480	93.2	78,818	92.7	78,485	93.3	77,702	92.7	68,116	88.9
Stainless	1,449	1.8	1,516	1.8	1,472	1.8	1,586	1.9	1,418	1.8
Alloy (other than stainless)	3,917	5.0	4,647	5.5	4,143	4.9	4,552	5.4	7,120	9.3
Total Steel Mill Product Shipments by Months										
January	6,786		6,863		7,278		6,608		5,665	
February	6,039		6,502		6,832		6,848		5,527	
March	5,966		7,569		7,824		7,693		6,234	
April	6,450		7,023		7,164		7,082		6,312	
May	6,762		7,523		7,446		7,187		6,247	
June	6,623		7,493		7,331		7,422		6,656	
July	6,420		6,890		6,387		6,325		6,295	
August	6,954		7,366		7,224		7,035		6,364	
September	6,747		6,893		6,779		6,922		6,726	
October	7,499		7,643		7,174		6,912		7,077	
November	6,427		6,907		6,652		6,712		6,606	
December	6,118		6,187		6,053		6,738		6,977	
Total	78,846		84,981		84,100		83,840		76,654	

Note: Totals include adjustments not shown in monthly figures.

*Effective 1/1/88 these products are not longer classified as "steel mill products." Consequently comparable shipment tonnage is now included in applicable semi-finished forms or drawn wire.

**Prior to 1988 included in sheets hot rolled.

***Prior to 1988 included in structural pipe & tubing.

Table 11 (continued)

Net Shipments of Steel Mill Products–All Grades

(Thousands of net tons)

Steel Products	1986		1985		1984		1983		1982	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Ingots and steel for castings	244	0.3	256	0.4	275	0.4	238	0.4	246	0.4
Blooms, slabs, billets	1,242	1.8	1,118	1.5	1,031	1.4	760	1.1	1,035	1.7
Skelp	5	...	9	...	11	...	5	...	2	...
Wire Rods	3,464	4.9	2,962	4.0	3,090	4.2	2,857	4.2	2,411	3.9
Structural shapes (3" & over)	4,233	6.0	4,373	6.0	3,868	5.2	3,364	5.0	3,313	5.4
Steel piling	295	0.4	326	0.5	288	0.4	258	0.4	250	0.4
Plates	3,565	5.1	4,327	5.9	4,339	5.9	3,816	5.6	4,146	6.7
Rails-Standard (over 60 lb)	444	0.6	679	0.9	933	1.3	611	0.9	498	0.8
-All other	17	...	25	...	32	...	23	...	19	...
Railroad accessories	101	0.1	121	0.2	182	0.3	177	0.3	157	0.3
Wheels (rolled and forged)	50	0.1	68	0.1	59	0.1	52	0.1	72	0.1
Axles	28	...	33	0.1	33	...	21	...	36	0.1
Bars-Hot rolled	5,648	8.0	5,698	7.8	6,070	8.2	5,129	7.6	4,757	7.7
-Bar-Size light shapes	911	1.3	1,329	1.8	1,184	1.6	1,070	1.6	948	1.5
-Reinforcing	4,299	6.1	4,326	5.9	4,432	6.0	4,275	6.3	4,049	6.6
-Cold finished	1,257	1.8	1,255	1.7	1,484	2.0	1,179	1.7	1,015	1.7
Tool Steel	56	0.1	60	0.1	61	0.1	46	0.1	44	0.1
Pipe and tubing-Standard Pipe	710	1.0	855	1.1	743	1.0	812	1.2	962	1.5
-Oil country goods	483	0.7	1,299	1.8	1,406	1.9	678	1.0	1,759	2.9
-Line	604	0.9	775	1.1	775	1.0	623	0.9	1,093	1.8
-Mechanical	748	1.1	812	1.1	940	1.3	748	1.1	762	1.2
-Pressure	72	0.1	87	0.1	89	0.1	88	0.1	108	0.2
-Structural	177	0.3	219	0.3	270	0.4	238	0.4	301	0.5
-Stainless	42	0.1	49	0.1	52	0.1	57	0.1	41	0.1
Wire-Drawn	802	1.1	874	1.2	963	1.3	1,010	1.5	1,003	1.6
-Nails and staples	205	0.3	170	0.2	147	0.2	163	0.2	123	0.2
-Barbed and twisted	41	0.1	38	0.1	52	0.1	98	0.1	65	0.1
-Woven wire fence	11	...	20	...	26	...	49	0.1	74	0.1
-Bale ties and baling wire	21	...	34	0.1	35	0.1	39	0.1	43	0.1

Black plate	216	0.3	215	0.3	286	0.4	352	0.5	319	0.5
Tin plate	2,581	3.7	2,611	3.6	2,765	3.7	2,925	4.4	3,018	4.9
Tin free steel	935	1.3	889	1.2	945	1.3	962	1.4	918	1.5
Tin coated sheets	69	0.1	58	0.1	66	0.1	69	0.1	66	0.1
Sheets-Hot rolled	12,167	17.3	12,952	17.7	13,133	17.8	11,619	17.2	9,052	14.7
-Cold rolled	13,250	18.9	13,574	18.6	13,664	18.5	13,781	20.4	11,132	18.1
Sheets & Strip-Galvanized-Hot dipped	7,224	10.3	6,850	9.4	6,100	8.3	5,793	8.6	4,878	7.9
-Electrolytic	898	1.3	697	0.9	659	0.9	641	0.9	491	0.8
-All other metallic coated	1,177	1.7	1,122	1.5	1,109	1.5	946	1.4	694	1.1
-Electrical	416	0.6	413	0.6	490	0.7	458	0.7	445	0.7
Strip-Hot rolled	635	0.9	586	0.8	650	0.9	633	0.9	498	0.8
-Cold rolled	920	1.3	876	1.2	1,002	1.3	920	1.4	724	1.2
Total Steel Mill Products	70,263	100.0	73,043	100.0	73,739	100.0	67,583	100.0	61,567	100.0
Carbon	62,520	89	64,360	88.1	65,009	88.2	60,292	89.2	53,947	87.6
Stainless and heat resisting	1,187	1.7	1,251	1.7	1,248	1.7	1,137	1.7	894	1.5
Alloy (other than stainless)	6,556	9.3	7,432	10.2	7,482	10.1	6,154	9.1	6,726	10.9

Total Steel Mill Product Shipments by Months*

January	6,437	6,017	5,980	4,583	5,608
February	5,799	5,598	6,150	4,588	5,434
March	6,142	6,344	7,240	5,969	6,163
April	6,283	6,425	6,472	5,399	5,488
May	6,212	6,519	6,948	5,612	5,149
June	6,007	6,125	6,686	5,986	5,372
July	5,815	5,710	5,820	5,045	4,514
August	5,364	6,064	6,033	5,789	4,724
September	5,608	5,848	5,454	5,893	4,760
October	5,923	6,308	6,087	6,078	4,309
November	4,899	5,654	5,317	6,014	4,088
December	5,199	5,821	4,867	6,269	4,234
Total*	70,263	73,043	73,739	67,583	61,567

*Totals include adjustments not shown in monthly figures

Table 12

Net Shipments of Steel Mill Products by Market Classifications
All Grades

(Thousands of net tons)

	1991		1990		1989		1988		1987	
Market Classifications	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Steel for converting and processing	8,265	10.5	9,441	11.1	8,235	9.8	8,492	10.1	7,195	9.4
Independent forgers (not elsewhere classified)	793	1.0	958	1.1	852	1.0	804	1.0	668	0.9
Industrial fasteners	327	0.4	373	0.4	351	0.4	402	0.5	396	0.5
Steel service centers & distributors	19,464	24.7	21,111	24.8	20,769	24.7	21,037	25.1	19,840	25.9
Construction, including maintenance	9,161	11.6	9,245	10.9	8,318	9.9	8,607	10.3	7,681	10.0
Contractors' products	2,306	2.9	2,870	3.4	3,182	3.8	3,495	4.2	3,337	4.4
Total	11,467	14.5	12,115	14.3	11,500	13.7	12,102	14.4	11,018	14.4
Automotive:										
Vehicles, parts, etc.	9,812	12.4	10,906	12.9	11,560	13.7	12,259	14.6	11,121	14.5
Independent forgers	203	0.3	194	0.2	203	0.3	296	0.4	222	0.3
Total	10,015	12.7	11,100	13.1	11,763	14.0	12,555	15.0	11,343	14.8
Rail Transportation:										
Freight cars, pass. cars & locomotives	443	0.6	494	0.6	662	0.8	628	0.7	351	0.5
Rails and all other	556	0.7	586	0.7	567	0.1	518	0.6	407	0.5
Total	999	1.3	1,080	1.3	1,229	1.5	1,146	1.4	758	1.0
Shipbuilding and marine equipment	215	0.3	339	0.4	364	0.0	303	0.4	202	0.3
Aircraft and aerospace	18	0.0	33	0.0	43	0.1	37	...	36	...
Oil and gas industry	1,425	1.8	1,892	2.2	1,203	1.4	1,477	1.8	1,489	1.9
Mining, quarrying and lumbering	349	0.4	545	0.6	463	0.6	493	0.6	402	0.5
Agricultural:										
Agricultural machinery	295	0.4	496	0.5	462	0.5	444	0.6	394	0.5
All other	271	0.3	216	0.3	143	0.2	124	0.1	196	0.3
Total	566	0.7	712	0.8	605	0.7	568	0.7	590	0.8
Machinery, industrial equipment & tools	1,982	2.5	2,388	2.8	2,409	2.9	2,798	3.3	2,277	3.0
Electrical equipment	2,102	2.7	2,453	2.9	2,449	2.9	2,459	2.9	2,373	3.1
Appliances, utensils and cutlery	1,388	1.8	1,540	1.8	1,721	2.0	1,638	2.0	1,633	2.1
Other domestic and commercial equipment	822	1.0	1,077	1.3	1,140	1.4	1,200	1.4	1,149	1.5
Containers, packaging and shipping materials:										
Cans and closures	3,198	4.1	3,332	3.9	3,344	3.9	3,159	3.8	3,233	4.2
Barrels, drums and shipping pails	530	0.7	639	0.8	567	0.7	617	0.7	618	0.8
All other	550	0.6	503	0.6	548	0.7	645	0.8	521	0.7
Total	4,278	5.4	4,474	5.3	4,459	5.3	4,421	5.3	4,372	5.7
Ordnance and other military	117	0.1	125	0.1	169	0.2	192	0.2	199	0.3
Export (reporting companies only)	4,476	5.7	2,487	2.9	3,183	3.8	1,233	1.5	515	0.7
Nonclassified shipments	9,777	12.4	10,736	12.6	11,193	13.3	10,483	12.5	10,199	13.2
Total Shipments	**78,846**	**100.0**	**84,981**	**100.0**	**84,100**	**100.0**	**83,840**	**100.0**	**76,654**	**100.0**

Table 12 (continued)

Net Shipments of Steel Mill Products by Market Classifications
All Grades

(Thousands of net tons)

Market Classifications	1986 Tons	1986 %	1985 Tons	1985 %	1984 Tons	1984 %	1983 Tons	1983 %	1982 Tons	1982 %
Steel for converting and processing	5,635	8.0	5,484	7.5	5,136	7.0	4,403	6.5	3,222	5.2
Independent forgers (not elsewhere classified)	538	0.8	708	1.0	775	1.1	573	0.8	579	0.9
Industrial fasteners	427	0.6	386	0.5	455	0.6	440	0.7	404	0.7
Steel service centers & distributors	17,478	24.9	18,439	25.2	18,364	24.9	16,710	24.7	13,067	21.2
Construction, including maintenance	7,336	10.4	7,900	10.8	7,522	10.2	7,271	10.8	6,283	10.2
Contractors' products	3,278	4.7	3,330	4.6	2,631	3.6	2,703	4.0	2,287	3.7
Total	10,614	15.1	11,230	15.4	10,153	13.8	9,974	14.8	8,570	13.9
Automotive:										
Vehicles, parts, etc.	11,627	16.5	12,689	17.3	12,571	17.1	12,052	17.8	9,111	14.8
Independent forgers	262	0.4	261	0.4	311	0.4	268	0.4	177	0.3
Total	11,889	16.9	12,950	17.7	12,882	17.5	12,320	18.2	9,288	15.1
Rail Transportation:										
Freight cars, pass. cars & locomotives	267	0.4	280	0.4	347	0.4	217	0.3	382	0.6
Rails and all other	531	0.7	781	1.0	1,091	1.5	720	1.1	638	1.1
Total	798	1.1	1,061	1.4	1,438	1.9	937	1.4	1,020	1.7
Shipbuilding and marine equipment	211	0.3	337	0.5	471	0.6	471	0.7	399	0.6
Aircraft and aerospace	39		39	...	37	0.1	21	...	30	...
Oil and gas industry	1,023	1.5	2,044	2.8	2,003	2.7	1,296	1.9	2,745	4.5
Mining, quarrying and lumbering	275	0.4	298	0.4	298	0.4	262	0.4	254	0.4
Agricultural:										
Agricultural machinery	373	0.6	442	0.7	480	0.6	417	0.6	425	0.7
All other	228	0.3	187	0.2	193	0.3	282	0.4	519	0.8
Total	601	0.9	629	0.9	673	0.9	699	1.0	944	1.5
Machinery, industrial equipment & tools	2,076	3.0	2,271	3.1	2,886	3.9	2,484	3.7	2,584	4.2
Electrical equipment	2,113	3.0	1,869	2.6	2,365	3.2	2,337	3.5	2,003	3.3
Appliances, utensils and cutlery	1,648	2.3	1,466	2.0	1,635	2.2	1,618	2.4	1,337	2.2
Other domestic and commercial equipment	1,173	1.7	1,215	1.7	1,339	1.8	1,363	2.0	1,247	2.0
Containers, packaging and shipping materials:										
Cans and closures	3,020	4.3	3,044	4.2	3,268	4.4	3,443	5.1	3,480	5.7
Barrels, drums and shipping pails	519	0.7	465	0.6	507	0.7	535	0.8	536	0.9
All other	574	0.9	580	0.8	577	0.8	554	0.8	454	0.7
Total	4,113	5.9	4,089	5.6	4,352	5.9	4,532	6.7	4,470	7.3
Ordnance and other military	228	0.3	267	0.4	242	0.3	244	0.4	203	0.3
Export (reporting companies only)	495	0.7	494	0.7	428	0.6	544	0.8	832	1.4
Nonclassified shipments	8,885	12.6	7,767	10.6	7,807	10.6	6,355	9.4	8,369	13.6
Total Shipments	70,263	100.0	73,043	100.0	73,739	100.0	67,583	100.0	61,567	100.0

Table 13

Shipments of Steel Mill Products by Market Classification–1991 All Grades

(Net Tons)

	Steel for Converting and Processing			Independent Forgers (Not elsewhere classified)	Industrial Fasteners	Steel Service Centers and Distrib-utors	Construction Including Mainte-nance	Con-tractors' Products
	Total Shipments	Less Shipments to Reporting Companies	Net Shipments					
Ingots, blooms, slabs, billets	1,544,572	733,129	811,443	252,931	475	240,476	98,115	10
Wire rods	1,453,534	8,718	1,444,816	86	77,946	21,131	894,020	5,384
Structural shapes(3" & over)	93,537	77	93,460	–	–	1,133,476	2,324,444	1,175
Steel piling	(22)	–	(22)	–	–	127,396	258,374	–
Plates cut lengths & coils	1,402,833	478,564	924,269	112	2,539	2,565,504	753,197	25,686
Rails & railroad accessories	–	–	–	–	–	37,024	8,198	–
Bars–Hot rolled (including light shapes)	1,066,727	408,691	658,036	534,268	154,816	1,167,296	784,903	52,820
–Reinforcing	680,432	–	680,432	–	404	542,080	2,813,142	297
–Cold finished	28,875	730	28,145	3,120	7,759	288,153	1,373	8,332
Tool steel	1,377	1,377	–	–	–	–	–	–
Pipe and tubing–Standard	8,620	6,744	1,876	–	–	701,183	10,229	24,911
–Oil Country Goods	651	–	651	–	–	163,937	–	–
–Line	8,460	661	7,799	–	–	244,573	2,404	77
–Mechanical	25,710	2,479	23,231	56	122	140,701	8,987	3,330
–Pressure	31	–	31	–	–	6,099	11	–
–Structural	89	43	46	–	–	123,844	–	2,528
–Pipe for piling	–	–	–	–	–	–	–	–
–Stainless	1,689	11	1,678	–	324	9,373	838	295
Wire–Drawn and/or rolled	91,145	39	91,106	–	38,751	193,429	6,207	18,777
Black plate	52,613	25,429	27,184	–	–	59,178	6,053	28,270
Tin plate	63,535	–	63,535	–	–	192,503	1	19,081
Tin free steel	10,426	–	10,426	–	–	36,681	(10)	374
Tin coated sheets	468	–	468	–	–	28,021	208	400
Sheets–Hot rolled	2,838,501	794,715	2,043,786	2,090	2,630	5,274,621	346,045	225,297
–Cold rolled	1,261,639	141,541	1,120,098	–	3,823	3,636,009	43,951	527,092
Sheets & strip–Galvanized	65,175	3,041	62,134	563	10,177	2,125,195	552,605	1,122,794
–All other metallic coated	5,597	909	4,688	–	408	289,283	228,085	210,403
–Electrical	13	–	13	–	–	22,515	52	28
Strip–Hot rolled	134,154	6,493	127,661	13	23,202	34,810	17,918	3,565
–Cold rolled	43,269	5,412	37,857	–	3,911	59,733	1,185	25,049
Total – All Grades	10,883,650	2,618,803	8,264,847	793,239	327,287	19,464,224	9,160,535	2,305,975
%	–	–	10.5	1.0	0.4	24.7	11.6	2.9

Table 13 (continued)

Shipments of Steel Mill Products by Market Classification–1991
All Grades

(Net Tons)

	Automotive	Rail trans–portation	Ship building and Marine Equipment	Aircraft and Aerospace	Oil and Gas Industry	Mining Quarrying and Lumbering	Agricultural	Machinery, Industrial Equipment and Tools
Ingots, blooms, slabs, billets	40,851	134,480	80	8,406	7,314	41	131	91,965
Wire rods	73,855	2,000	2,000	333	3,500	–	53,561	85,022
Structural shapes(3" & over)	76,511	41,375	19,571	–	2,568	429	1,712	44,836
Steel piling	–	4,101	5	–	–	–	–	–
Plates cut lengths & coils	456,115	260,098	185,580	2,216	57,221	23,548	51,115	530,349
Rails & railroad accessories	–	403,406	–	–	–	25,883	–	–
Bars–Hot rolled (including light shapes)	1,166,222	87,353	5,481	2,896	86,954	154,636	91,524	481,341
–Reinforcing	2,563	–	–	–	–	97,250	–	2,269
–Cold finished	106,842	541	265	382	4,270	3,591	12,781	135,195
Tool steel	–	–	–	–	–	–	–	–
Pipe and tubing–Standard	5,086	754	–	–	40,915	–	795	4,507
–Oil Country Goods	–	–	–	–	581,251	–	–	–
–Line	–	72	–	–	590,453	–	–	–
–Mechanical	122,050	252	34	996	32,797	353	13,095	199,526
–Pressure	6	–	–	–	134	–	–	9,995
–Structural	–	–	–	–	15,204	–	4,691	3,428
–Pipe for piling	–	–	–	–	–	–	–	–
–Stainless	1	–	13	325	18	–	1	5,239
Wire–Drawn and/or rolled	15,477	111	8	5	–	73	1,232	29,147
Black plate	946	–	–	–	–	–	–	3,683
Tin plate	41,193	–	–	–	–	–	177	11,639
Tin free steel	1,558	–	–	–	–	–	–	16
Tin coated sheets	34,830	–	–	–	–	–	–	565
Sheets–Hot rolled	1,538,866	55,587	1,225	1,018	385	39,324	90,835	85,771
–Cold rolled	2,048,264	1,303	27	129	–	(8)	51,651	111,217
Sheets & strip–Galvanized	3,678,128	1,220	–	224	(2)	21	141,800	27,831
–All other metallic coated	303,497	–	383	–	–	–	3,071	10,161
–Electrical	5,477	5,000	17	–	–	–	–	6,795
Strip–Hot rolled	146,555	1,159	43	610	2,262	3,599	47,358	55,737
–Cold rolled	150,535	117	8	842	143	–	148	45,658
Total – All Grades	10,015,428	998,929	214,740	18,382	1,425,387	348,740	565,678	1,981,892
%	12.7	1.3	0.3	0.0	1.8	0.4	0.7	2.5

Table 13 (continued)

Shipments of Steel Mill Products by Market Classification–1991
All Grades

(Net Tons)

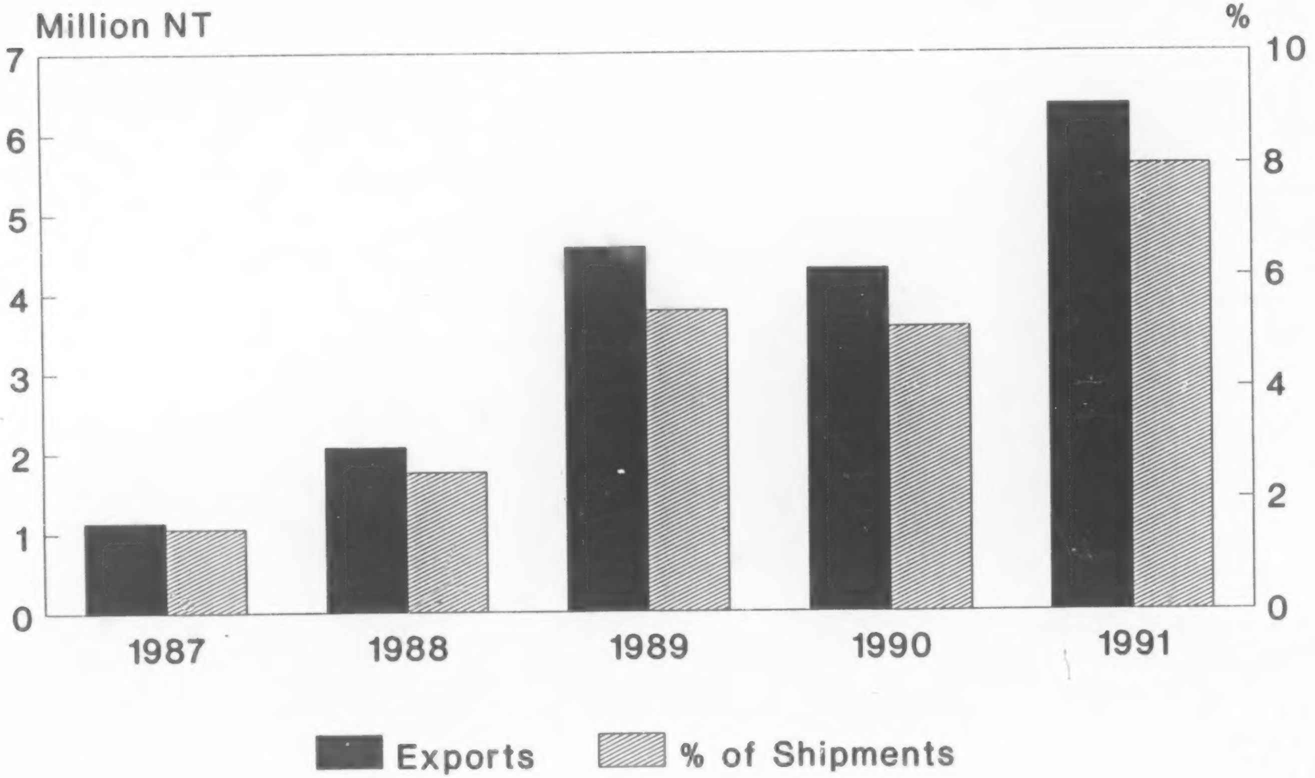
	Electrical Equipment	Appliances Utensils and Cutlery	Other Domestic and Commercial Equipment	Containers, Packaging and Shipping Materials	Ordnance and Other Military	Export (Reporting Companies Only)	Non-classified Shipments	Total	%
Ingots, blooms, slabs, billets	11	–	–	11,435	40,097	464,340	346,360	2,548,961	3.2
Wire rods	27,105	3,027	22,722	44	–	158,179	1,490,864	4,365,595	5.5
Structural shapes(3" & over)	431	–	655	41	–	157,703	1,346,936	5,245,323	6.7
Steel piling	–	–	–	–	–	39,963	646	430,463	0.5
Plates cut lengths & coils	39,536	13,915	12,153	4,468	34,118	469,827	530,840	6,942,406	8.8
Rails & railroad accessories	–	–	–	–	–	11,674	–	486,185	0.6
Bars–Hot rolled (including light shapes)	14,541	8,706	26,683	259	23,772	76,736	1,009,190	6,588,433	8.4
–Reinforcing	–	–	–	–	–	47,868	673,242	4,859,547	6.2
–Cold finished	4,395	5,397	5,761	19	6,320	7,167	711,534	1,341,342	1.7
Tool steel	–	–	–	–	–	1,021	50,169	51,190	0.1
Pipe and tubing–Standard	119,875	516	1,079	–	–	20,510	37,346	969,582	1.2
–Oil Country Goods	–	–	–	–	–	257,993	73,448	1,077,280	1.4
–Line	831	–	65	–	–	106,118	486,273	1,438,665	1.8
–Mechanical	2,354	4,818	21,157	–	1,222	15,345	153,498	743,924	0.9
–Pressure	306	–	–	–	–	2,513	30,361	49,456	0.1
–Structural	485	–	128	–	–	481	–	150,835	0.2
–Pipe for piling	–	–	–	–	–	707	23,332	24,039	0.0
–Stainless	602	87	–	–	–	1,045	14,394	34,233	0.0
Wire–Drawn and/or rolled	6,123	5,527	41,954	3,355	122	2,313	411,375	865,092	1.1
Black plate	1,545	1,035	19,093	59,751	–	41,954	19	248,711	0.3
Tin plate	2,377	6,729	2,243	2,332,610	–	82,605	(1,033)	2,753,660	3.5
Tin free steel	3,401	187	(24)	878,077	–	32,959	–	963,645	1.2
Tin coated sheets	3,368	608	280	5,047	–	63	–	73,858	0.1
Sheets–Hot rolled	298,662	84,845	107,961	179,988	35	1,824,127	957,427	13,160,525	16.7
–Cold rolled	1,115,953	949,174	486,448	567,460	7,980	237,746	623,200	11,531,517	14.6
Sheets & strip–Galvanized	114,253	235,546	46,429	33,353	–	245,698	611,004	9,008,973	11.5
–All other metallic coated	2,318	26,578	6,378	405	–	41,846	18,981	1,146,485	1.5
–Electrical	324,808	2,736	115	–	–	95,168	(5,114)	457,610	0.6
Strip–Hot rolled	1,308	2,307	5,353	3,474	504	8,166	47,309	532,913	0.7
–Cold rolled	17,728	36,172	15,749	198,446	3,121	23,785	135,052	755,239	1.0
Total – All Grades	2,102,316	1,387,910	822,382	4,278,232	117,291	4,475,620	9,776,653	78,845,687	100.0
%	2.7	1.8	1.0	5.4	0.1	5.7	12.4	100.0	–

EXPORTS AND IMPORTS

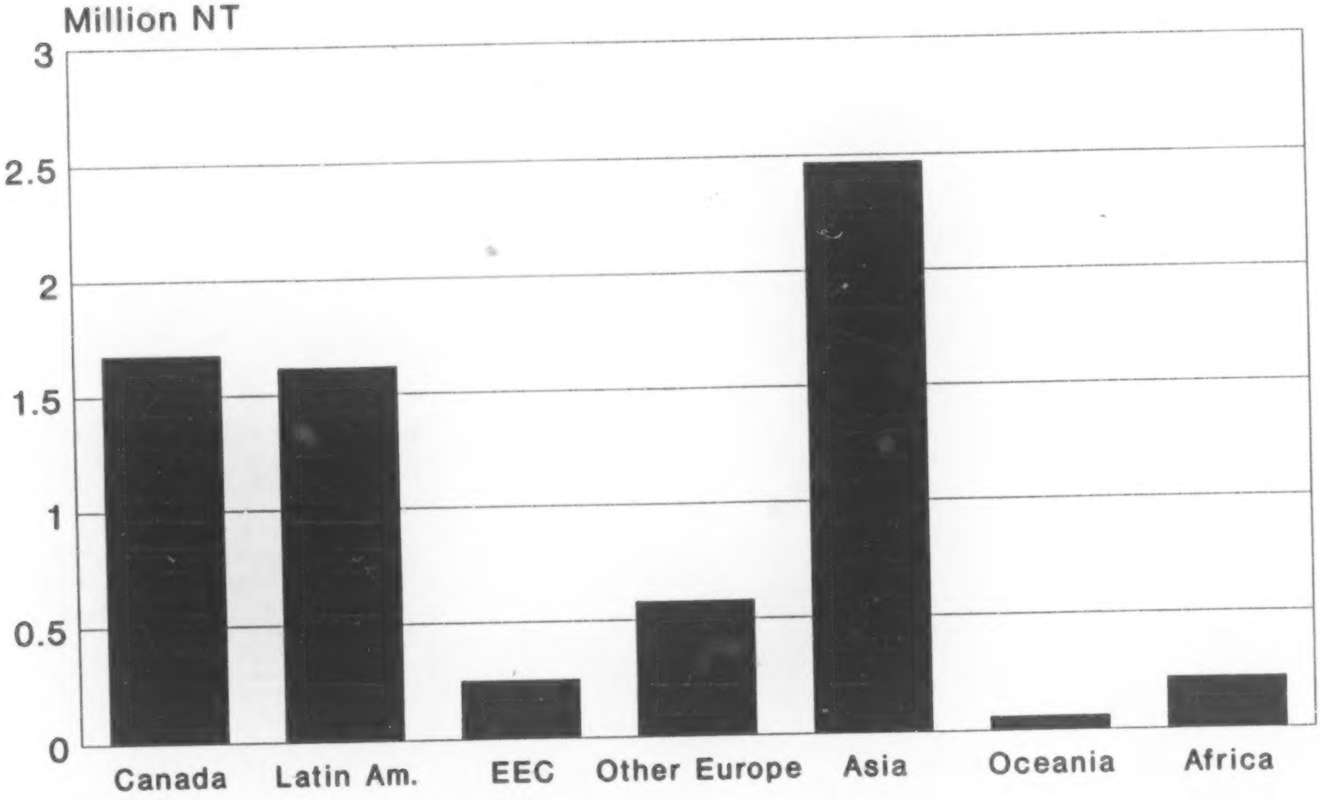
The following tables, compiled from Department of Commerce report on Foreign Commerce and Navigation of the United States, give the tonnage of iron and steel products exported and imported during the period 1987–1991. Exports and imports of iron and steel products not stated by weight in the reports are necessarily omitted.

Exports of Steel Mill Products

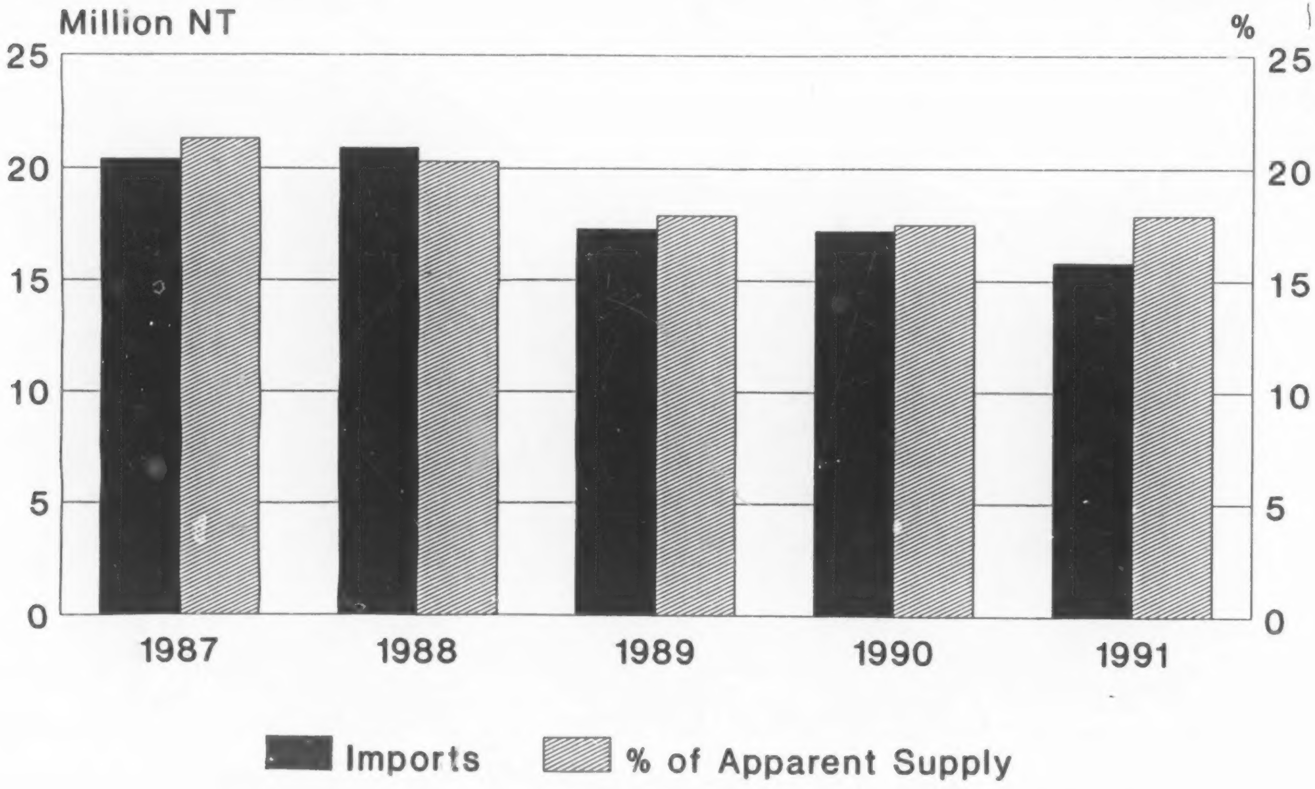
and Exports as a % of Shipments



Exports of Steel Mill Products
by Country of Destination Year 1991



Imports of Steel Mill Products
and Imports as % of Apparent Supply



Imports of Steel Mill Products

by Country of Origin - Year 1991

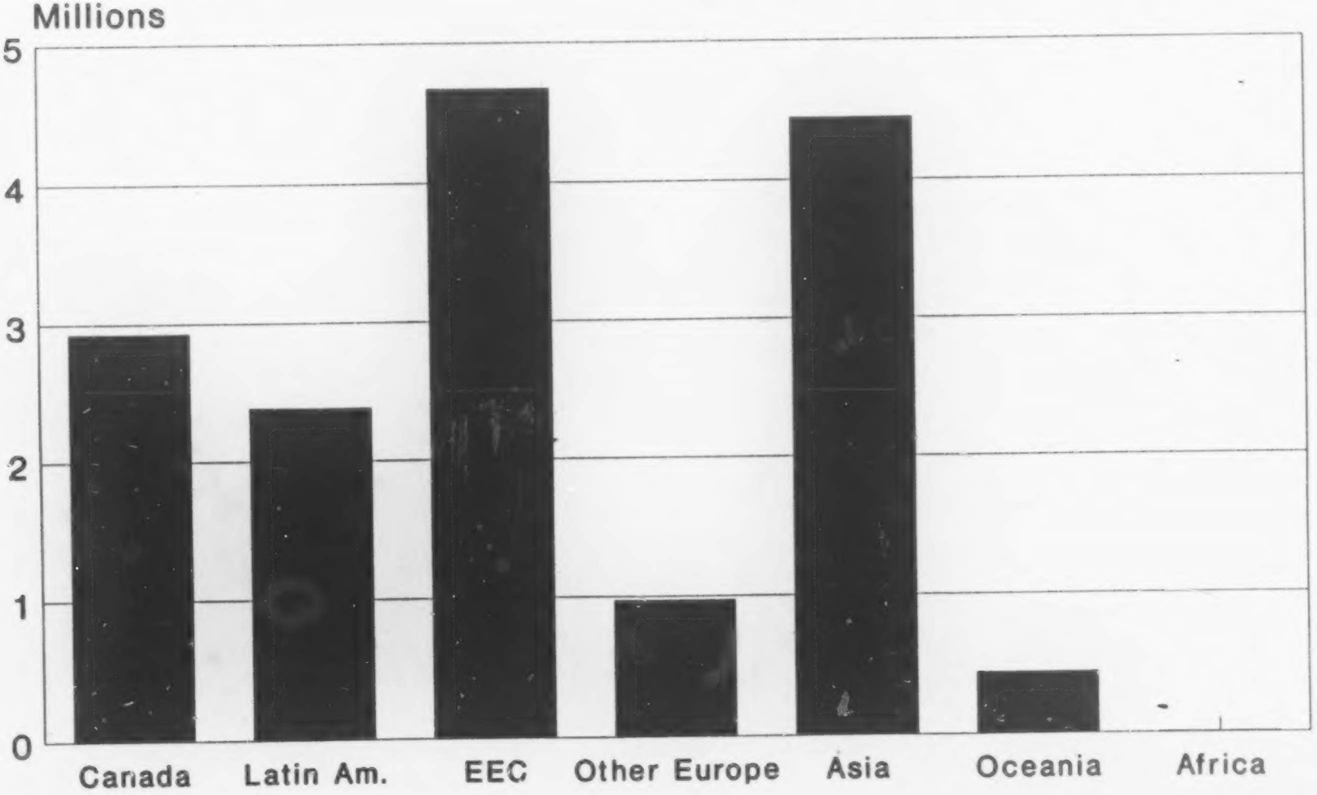


Table 14

Exports of Iron and Steel Products

(Net Tons)

Products	1991	1990	1989	1988	1987
Steel Mill Products:					
Ingots, blooms, billets, slabs, etc.	699,087	522,326	390,816	61,430	73,543
Wire rods	166,457	106,633	36,094	10,161	8,217
Structural shapes (3" & over)	405,641	307,700	164,435	61,494	63,159
Steel piling	9,591	7,125	5,243	428	2,552
Plates- cut lengths	277,030	167,595	137,108	119,393	85,211
-in coils	454,411	290,740	493,587	++	++
Rails-standard	22,315	58,017	5,542	4,435	6,321
-all other	9,637	5,457	5,609	3,174	3,221
Railroad accessories	9,264	4,320	5,884	6,038	2,447
Wheels and axles	+	+	+	+	3,766
Bars-hot rolled	230,011	214,729	87,265	78,300	66,007
-shapes under 3"	49,541	52,921	16,745	13,461	11,563
-concrete reinforcing	234,618	118,920	87,801	23,480	20,550
-cold finished	57,645	53,885	40,854	21,717	20,687
Tool steel	8,556	4,594	18,492	4,502	3,061
Standard pipe	37,453	32,259	23,253	31,177	20,686
Oil country goods	362,769	194,772	319,871	95,057	29,746
Line pipe	162,054	73,420	27,927	13,218	5,714
Mechanical tubing	10,083	7,157	4,375	36,193	35,523
Pressure tubing	+	+	+	11,459	6,892
Stainless pipe & tubing	14,934	13,443	8,067	6,198	8,751
Nonclassified pipe & tubing	138,346	119,056	43,949	54,723	41,077
Structural pipe & tubing	20,471	24,797	14,427	2,365	3,767
Pipe for piling	7,007	5,879	1,127	+++	+++
Wire-drawn	89,416	70,052	31,344	36,164	26,146
-barbed, iron or steel	+	+	+	+	1,695
-nails and staples	+	+	+	+	7,905
Black plate	4,883	2,382	...	139,125	73,967
Tin plate	150,739	147,706	188,291	287,403	158,998
Tin free	37,988	25,605	29,531	4,171	3,663
Sheets-hot rolled	1,597,844	685,367	1,156,378	419,037	103,962
-cold rolled	404,462	358,394	498,680	66,157	29,458
Sheets & strip-galv.-hot dipped	179,627	199,319	333,012 {	266,874	58,121
-electrolytic	123,734	87,061	111,159 {		
-all other metallic coated	99,814	104,075	103,355	66,474	62,764
-electrical	84,185	47,575	54,712	42,996	18,116
Strip-hot rolled	72,825	71,396	44,476	32,331	28,321
-cold rolled	113,445	117,903	88,534	49,488	32,942
Total Steel Mill Products	6,345,883	4,302,581	4,577,944	2,068,623	1,128,519
Carbon	5,457,047	3,734,811	4,106,839	1,494,960	772,962
Alloy	722,800	450,356	368,254	488,998	271,739
Stainless	166,036	117,414	102,851	84,666	83,818

Other Steel Products:					
Plates-fabricated	...	...	...	2,485	2,296
Sheets-fabricated	...	...	...	17,693	8,412
Structural shapes - fabricated	273,192	214,045	124,790	49,692	35,662
Shapes - cold formed	9,439	9,269	2,903	...	...
Sashes and frames	15,970	13,300	8,402	7,246	5,462
Rails - used	45,053	46,741	59,320	42,184	56,804
Railway track material	6,337	4,908	5,986	4,648	5,774
Wheels and axles++++	15,450	7,191	4,124	5,209	...
Fence or sign posts	1,332	1,250	1,393	...	...
Wire rope	4,380	4,582	3,171	{ 10,519	8,358
Wire strand	18,246	14,704	6,758	{	
Wire springs	28,486	29,893	37,050	31,661	23,189
Grill, netting & fencing	10,794	7,694	9,367	2,292	3,356
Nails and staples++++	14,136	11,853	9,688	11,291	...
Barbed wire++++	3,997	2,715	3,175	1,746	...
Industrial fasteners	169,127	180,823	135,626	78,439	55,608
Fabricated wire products	...	...	...	9,061	9,916
Architectural & ornamental work	1,090	1,533	2,254	1,668	1,472
Chains & parts	22,960	23,418	15,279	11,672	9,054
Cast steel rolls	12,354	12,448	4,856	3,608	1,880
Grinding balls	94,091	91,303	67,003	...	...
Conduit	2,049	2,925	5,113	...	...
Pipe & tube fittings	18,107	17,444	13,645	36,060	30,820
Forgings	...	...	...	73,279	78,202
Total Other Steel Products	766,591	698,038	519,903	400,453	336,263
Total Steel Products	7,112,473	5,000,618	5,097,847	2,469,077	1,464,782
Iron Products & Ferroalloys:					
Cast iron tube,pipes,profiles & fittings	78,846	88,043	71,834	56,736	26,991
Malleable cast iron pipe fittings	14,553	12,651	7,607	4,872	4,585
Castings and forgings	32,078	29,649	46,889	55,970	67,197
Pig iron	17,110	15,933	11,746	71,454	50,072
Sponge iron	24,015	69,235	25,490	18,810	16,629
Ferroalloys	97,039	92,538	112,918	80,470	77,460
Total Iron Products & Ferroalloys	263,641	308,049	276,485	288,313	242,935
Grand Total	7,376,114	5,308,667	5,374,332	2,757,389	1,707,717
Iron and steel scrap	10,301,255	12,764,791	13,305,433	10,097,557	10,366,667

+Included in Other Steel Products. ++Included in Sheets hot rolled. +++Included in Structural pipe & tubing.

++++Prior to 1988 included in Steel Mill Products.

INTENTIONALLY BLANK

Table 15

Exports of Iron and Steel Products

(Net Tons)

Products	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Steel Mill Products:										
Ingots, blooms, billets, slabs, etc.	699,087	522,326	390,816	61,430	73,543	58,885	89,708	73,536	102,754	362,293
Wire rods	166,457	106,633	36,094	10,161	8,217	5,876	4,740	8,646	6,137	24,961
Structural shapes and pilings	415,232	314,825	169,678	61,922	65,711	37,426	42,261	32,403	49,116	62,018
Plates	731,441	458,335	630,695	119,393	85,211	69,565	82,988	88,184	101,982	121,930
Rails and accessories	41,216	67,794	17,035	13,647	15,755	13,132	13,430	19,078	20,071	39,192
Bars and tool steel	580,371	445,049	251,157	141,460	121,868	81,225	99,096	133,595	170,052	222,608
Pipe and tubing	753,117	470,783	442,996	250,390	152,156	121,050	199,319	207,426	257,952	430,626
Wire and wire products	89,416	70,052	31,344	36,164	35,746	34,579	25,037	27,968	27,259	33,353
Tin mill products	193,610	175,693	217,822	430,699	236,628	279,473	163,904	162,020	249,556	312,017
Sheets and strip	2,675,936	1,671,090	2,390,306	943,357	333,684	227,946	211,491	227,557	213,698	233,269
Total Steel Mill Products	6,345,883	4,302,581	4,577,944	2,068,623	1,128,519	929,156	931,976	980,414	1,198,577	1,842,267
Other Steel Products	766,591	698,038	519,903	400,453	336,263	285,522	361,016	378,098	339,067	453,689
Total Steel Products	7,112,473	5,000,618	5,097,847	2,469,077	1,464,782	1,214,678	1,292,991	1,358,512	1,537,644	2,295,956
Iron Products and ferroalloys	263,641	308,049	276,485	288,313	242,935	236,576	276,231	368,081	227,094	292,029
Grand total	7,376,114	5,308,667	5,374,332	2,757,389	1,707,717	1,451,254	1,569,222	1,726,592	1,764,738	2,587,985

Table 16

Exports of Steel Mill Products

(Net Tons)

Months	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
January	438,536	374,068	257,195	89,457	65,326	86,828	65,997	86,253	94,513	173,403
February	485,787	312,670	237,345	100,219	87,135	72,764	73,275	73,074	92,122	153,543
March	368,364	365,461	606,209	113,654	83,619	73,830	76,528	79,994	88,940	197,296
April	594,860	335,330	333,676	116,333	94,357	72,371	71,252	72,687	105,754	147,572
May	598,437	351,964	355,358	124,344	114,511	61,209	84,930	90,031	100,931	194,314
June	772,044	317,750	403,278	125,891	98,864	70,194	83,233	85,895	100,182	180,094
July	627,148	302,058	302,744	128,280	84,093	67,643	81,333	89,790	108,250	145,546
August	494,563	268,692	461,326	139,352	91,445	85,591	100,855	94,076	100,123	152,434
September	606,029	343,872	363,849	206,760	98,604	102,950	63,385	76,358	99,000	158,258
October	485,701	424,805	617,752	244,207	86,113	71,825	77,090	88,558	109,868	133,356
November	427,257	493,629	251,373	242,806	114,246	87,180	73,202	61,026	114,210	105,988
December	447,156	412,281	386,493	437,323	110,208	76,770	80,894	82,645	84,459	97,370
Total*	6,345,883	4,302,581	4,577,944	2,068,623	1,128,519	929,156	931,976	980,414	1,198,577	1,842,267

*Totals include adjustments not shown in monthly figures.

Table 17

Exports of Iron and Steel Products by Countries of Destination–1991

(Net Tons)

Products	Grand Total	Canada	Latin America				
			Mexico	Vene-zuela	Brazil	Argen-tina	Total Latin Am.
Steel Mill Products:							
Ingots, blooms, billets, slabs, etc.	699,088	65,425	59,320	574	1,620	353	111,726
Wire rods	166,458	55,671	51,969	1,157	738	7	64,939
Structural shapes (3" & over)	405,642	177,699	77,671	5,619	138	28	95,561
Steel piling	9,589	1,121	4,078	...	18	...	6,212
Plates- cut lengths	277,031	96,163	54,361	1,349	504	671	60,025
-in coils	454,411	76,476	96,034	699	40	8,430	106,053
Rails-standard	22,316	8,172	11,321	300	170	37	13,275
-all other	9,636	1,314	7,407	59	29	166	8,024
Railroad accessories	9,264	8,877	318	...	...	...	319
Bars-hot rolled	230,011	147,858	64,967	404	53	242	70,172
-shapes under 3"	49,542	20,349	23,341	644	1	130	26,587
-concrete reinforcing	234,618	37,085	69,151	1,487	...	...	91,782
-cold finished	57,643	23,651	15,019	382	1,205	665	21,666
Tool steel	8,556	1,859	5,241	24	10	4	5,473
Standard pipe	37,453	17,203	5,088	580	187	98	7,915
Oil country goods	362,769	50,307	11,932	64,127	793	2,429	97,892
Line pipe	162,052	52,005	11,394	4,798	158	1	38,424
Mechanical tubing	10,084	8,472	914	2	...	...	1,029
Stainless pipe & tubing	14,934	5,623	2,652	155	6	17	3,669
Nonclassified pipe & tubing	138,346	102,543	9,574	2,443	64	288	18,005
Structural pipe & tubing	20,471	11,207	2,402	23	...	...	2,937
Pipe for piling	7,008	6,232	387	...	...	...	669
Wire-drawn	89,415	34,427	18,670	182	3,989	152	26,708
Black Plate	4,883	...	868	...	636	...	2,584
Tin plate	150,738	24,623	39,414	736	2,852	3,740	55,113
Tin free	37,987	888	16,909	55	829	2,516	20,522
Sheets-hot rolled	1,597,844	124,340	217,933	22,008	299	30	242,089
-cold rolled	404,462	106,429	234,347	524	150	2,363	242,780
Sheets & strip-galv.-hot dipped	179,627	138,832	27,781	76	9	...	28,635
-electrolytic	123,735	94,673	21,289	687	...	14	23,289
-all other metallic coated	99,812	64,871	27,606	310	115	142	28,642
-electrical	84,186	12,218	25,604	2,351	160	852	29,458
Strip-hot rolled	72,824	30,956	40,636	37	46	5	40,839
-cold rolled	113,444	68,162	22,232	609	388	76	24,395
Total Steel Mill Products	6,345,883	1,675,733	1,277,831	112,399	15,206	23,456	1,617,408
Carbon	5,457,047	1,483,181	1,103,446	45,107	12,449	18,087	1,312,566
Alloy	722,800	154,021	124,622	65,381	1,769	4,854	247,102
Stainless	166,036	38,531	49,763	1,911	989	515	57,741

Other Steel Products:							
Structural shapes - fabricated	273,192	22,620	34,004	5,657	64	355	63,536
Shapes - cold formed	9,439	2,542	5,298	31	...	125	5,837
Sashes and frames	15,970	8,357	1,244	1	17	2	2,680
Rails - used	45,053	1,250	42,432	259	373	...	43,804
Railway track material	6,337	1,874	390	241	118	1	3,074
Wheels and axles	15,450	3,920	1,319	842	42	48	2,616
Fen[illegible] posts	1,332	220	224	12	...	...	310
Wire [illegible]	4,380	1,487	879	6	8	1	1,877
Wire strand	18,246	4,656	5,749	525	73	742	9,287
Wire springs	28,486	19,717	6,195	49	89	7	6,543
Grill, netting & fencing	10,794	6,885	899	8	1	...	2,223
Nails and staples	14,136	7,474	1,051	56	7	10	2,316
Barbed wire	3,997	972	1,041	5	32	...	2,483
Industrial fasteners	169,127	114,200	34,698	302	92	27	37,339
Architectural & ornamental work	1,090	268	118	8	...	...	452
Chains & parts	22,960	13,171	2,456	277	85	101	4,470
Cast steel rolls	12,354	11,725	371	...	2	...	420
Grinding balls	94,091	58,076	9,632	108	180	91	17,143
Conduit	2,049	23	138	9	...	1	544
Pipe & tube fittings	18,107	3,877	2,350	685	57	10	5,955
Total Other Steel Products	766,591	283,313	150,489	9,082	1,239	1,522	212,906
Total Steel Products	7,112,473	1,959,046	1,428,320	121,481	16,445	24,978	1,830,314
Iron Products & Ferroalloys:							
Cast iron tube,pipes,profiles & fittings	78,846	12,568	5,478	546	40	107	25,682
Malleable cast iron pipe fittings	14,553	7,747	896	159	24	...	2,052
Castings and forgings	32,078	13,690	4,035	1,200	139	178	8,539
Pig iron	17,110	1,058	12,813	...	...	67	13,078
Sponge iron	24,015	6,735	5,190	979	1,340	728	8,698
Ferroalloys	97,039	47,712	19,423	354	80	19	20,387
Total Iron Products & Ferroalloys	263,641	89,510	47,836	3,238	1,622	1,099	78,437
Grand Total	7,376,114	2,048,556	1,476,156	124,719	18,067	26,077	1,908,751
Iron and steel scrap	10,301,255	888,688	569,218	6,540	141	934	807,028

Country detail may not add to regional total because of omissions of some countries.

Table 17 (continued)

Exports of Iron and Steel Products by Country of Destination -1991

(Net Tons)

	Europe									
	European Economic Community									
Products	United Kingdom	Nether-lands	Belgium	France	Fed. Rep. Germany	Italy	Spain	Total E.E.C.*	Sweden	Total Other Europe
Steel Mill Products:										
Ingots, blooms, billets, slabs, etc.	2,543	352	5,542	20,886	11,237	10,239	4,876	55,711	826	3,052
Wire rods	207	242	2	43	121	49	18	702	...	562
Structural shapes (3" & over)	6,953	1,459	6,638	62	446	309	161	16,094	17	3,160
Steel piling	69	...	...	7	758	...	...	841	...	17
Plates- cut lengths	1,524	24	9	42	57	1,643	208	3,542	...	124
-in coils	177	26	2	5	...	2	1	37,369	...	17
Rails-standard	7	...	10	16	6	30	...	70	...	...
-all other	16	...	...	...	...	...	...	147	...	11
Railroad accessories	1	...	...	...	...	...	...	1	...	...
Bars-hot rolled	3,573	12	64	53	135	295	20	4,445	417	535
-shapes under 3"	3	8	...	109	47	18	1	195	...	130
-concrete reinforcing	1	400	...	445	11	67	1	925	...	24,337
-cold finished	1,378	698	100	208	1,309	161	24	3,923	54	960
Tool steel	177	94	12	20	270	47	...	621	1	11
Standard pipe	694	1,718	52	828	337	32	1,056	4,891	168	282
Oil country goods	4,688	14,053	65	133	87	21,099	38	40,198	27	13,841
Line pipe	2,519	43	43	17	59	5	...	2,686	1	1,673
Mechanical tubing	27	1	...	...	...	7	...	35	...	...
Stainless pipe & tubing	299	55	4	39	193	15	22	816	54	167
Nonclassified pipe & tubing	309	366	11	77	108	47	75	1,084	1	558
Structural pipe & tubing	45	1,010	...	2	281	484	5	1,827	62	674
Pipe for piling	...	70	...	...	...	...	3	73	...	...
Wire-drawn	1,516	122	60	201	1,196	21	69	3,217	108	1,470
Black Plate	...	21	...	...	16	310	...	348	...	...
Tin plate	238	...	60	18	2	9,836	67	10,638	...	234
Tin free	1,801	...	...	1	...	2,594	...	4,728	3	3
Sheets-hot rolled	738	728	...	64	85	18,850	41	20,531	148	1,643
-cold rolled	2,013	851	573	1,529	1,804	9,752	2	16,587	74	1,003
Sheets & strip-galv.-hot dipped	5,041	...	934	...	1,396	...	4	7,374	...	17
-electrolytic	50	4	...	3	17	84	17	177	...	16
-all other metallic coated	646	820	...	462	48	471	42	2,685	226	251
-electrical	146	...	...	17	123	837	20	1,419	1	1,187
Strip-hot rolled	179	17	5	28	6	1	14	265	1	190
-cold rolled	2,510	299	238	787	720	496	61	5,214	5	606
Total Steel Mill Products	40,090	23,493	14,421	26,101	20,876	77,802	6,845	249,381	2,192	56,732
Carbon	26,209	9,245	9,522	2,237	10,888	58,680	1,162	156,800	1,885	47,121
Alloy	7,712	12,044	983	19,459	2,467	18,412	839	62,506	101	6,139
Stainless	6,170	2,205	3,916	4,405	7,521	710	4,844	30,074	206	3,472

Other Steel Products:										
Structural shapes - fabricated	6,171	475	1,369	819	9,585	222	1,148	20,489	201	8,599
Shapes - cold formed	50	1	9	...	...	...	...	59	...	...
Sashes and frames	1,007	40	1	76	92	17	97	1,496	28	267
Rails - used	...	...	...	...	...	...	...	...	...	...
Railway track material	30	39	178	14	10	15	...	286	1	48
Wheels and axles	50	...	6	5	90	21	1	180	...	104
Fence or sign posts	30	5	5	25	17	2	...	87	...	8
Wire rope	71	19	24	10	137	56	...	319	13	21
Wire strand	87	23	187	3	26	39	162	535	1	2,462
Wire springs	356	115	8	78	178	30	39	897	30	61
Grill, netting & fencing	69	5	15	...	12	4	...	132	1	70
Nails and staples	381	116	38	697	730	49	10	2,127	41	136
Barbed wire	19	...	...	13	14	8	17	72	...	24
Industrial fasteners	3,864	480	304	1,351	2,380	418	159	9,161	177	789
Architectural & ornamental work	52	44	32	62	3	...	...	194	4	9
Chains & parts	326	500	446	124	317	128	184	2,052	144	191
Cast steel rolls	5	...	...	...	39	...	...	44	...	...
Grinding balls	733	5	327	...	4	758	1,724	3,572	280	1,325
Conduit	79	...	...	...	45	39	171	335	...	...
Pipe & tube fittings	639	97	52	278	481	98	63	2,012	37	517
Total Other Steel Products	14,017	1,966	3,002	3,555	14,159	1,906	3,774	44,048	959	14,630
Total Steel Products	54,107	25,459	17,423	29,656	35,035	79,708	10,619	293,429	3,151	71,362
Iron Products & Ferroalloys:										
Cast iron tube,pipes,profiles & fittings	989	26	518	54	1,422	476	551	4,052	141	311
Malleable cast iron pipe fittings	379	828	1,119	64	50	28	35	2,516	9	57
Castings and forgings	624	1,276	342	669	496	224	30	4,733	14	142
Pig iron	1,336	57	115	...	336	...	...	1,844	...	148
Sponge iron	767	240	156	86	530	65	40	1,959	166	247
Ferroalloys	7,031	366	976	1,092	4,540	395	107	14,525	592	735
Total Iron Products & Ferroalloys	11,126	2,795	3,226	1,965	7,374	1,188	764	29,631	920	1,639
Grand Total	65,233	28,254	20,649	31,621	42,409	80,896	11,383	323,060	4,071	73,001
Iron and steel scrap	75,954	7,097	4,005	246	6,931	48,161	130,219	386,246	2,915	1,962,677

*Includes total for Ireland, Denmark, Greece, Luxembourg & Portugal.

Table 17 (continued)

Exports of Iron and Steel Products by Country of Destination -1991

(Net Tons)

	Asia					Oceania		Africa	
Products	Peoples Republic of China	Korea Republic	China Taiwan	Japan	Total Asia	Australia	Total Oceania	Egypt	Total Africa
Steel Mill Products:									
Ingots, blooms, billets, slabs, etc.	105	62,439	185,041	55,049	378,839	41,932	42,149	27,463	42,186
Wire rods	...	24,582	1,153	95	44,451	12	19	...	114
Structural shapes (3" & over)	1	52,751	9,919	10,063	110,857	201	772	109	1,499
Steel piling	...	93	66	559	991	...	...	401	407
Plates- cut lengths	8	37,019	11,486	47,713	116,462	122	177	...	538
-in coils	...	40,359	6,952	170,401	231,598	32	2,898	...	...
Rails-standard	111	268	34	3	575	...	...	...	224
-all other	...	1	1	5	110	...	...	24	30
Railroad accessories	...	...	...	6	12	...	1	...	54
Bars-hot rolled	9	583	364	147	5,768	265	286	...	947
-shapes under 3"	...	347	281	5	2,003	71	82	...	196
-concrete reinforcing	...	1	13	21,612	23,277	...	323	19,450	56,889
-cold finished	99	348	1,663	574	7,117	204	227	2	99
Tool steel	...	84	59	47	290	7	11	...	291
Standard pipe	696	394	623	223	3,430	2,436	2,442	...	1,290
Oil country goods	90,768	204	141	879	130,974	4,479	5,542	1,789	24,015
Line pipe	831	349	198	395	10,849	820	883	135	55,532
Mechanical tubing	501	1	3	...	534	...	11	...	3
Stainless pipe & tubing	46	2,050	47	45	4,434	116	134	32	91
Nonclassified pipe & tubing	187	1,880	334	216	5,454	96	129	9,673	10,573
Structural pipe & tubing	492	53	28	11	679	2,080	2,240	813	907
Pipe for piling	...	...	2	21	23	11	11	...	...
Wire-drawn	67	22,137	280	214	23,281	119	189	2	123
Black Plate	...	...	348	44	1,951	...	...	...	...
Tin plate	3,904	45	3,156	15	46,667	1	1	9,056	13,462
Tin free	1,310	365	28	19	6,766	...	...	...	5,080
Sheets-hot rolled	9	586,359	201,526	353,491	1,209,007	208	208	...	26
-cold rolled	3	4,471	3,370	3,030	37,170	253	269	136	224
Sheets & strip-galv.-hot dipped	...	...	3,367	59	4,240	...	...	22	529
-electrolytic	6	14	4,329	247	5,536	...	...	...	44
-all other metallic coated	215	334	855	10	3,252	107	107	...	4
-electrical	...	32,858	142	11	37,803	70	70	544	2,031
Strip-hot rolled	8	67	179	74	550	2	14	...	10
-cold rolled	251	864	269	1,173	13,460	800	813	168	794
Total Steel Mill Products	99,628	871,321	436,257	666,459	2,468,408	54,442	60,008	69,818	218,213
Carbon	9,691	820,290	429,557	596,006	2,201,078	50,392	55,614	68,086	200,687
Alloy	89,788	37,802	2,764	68,322	233,645	2,785	3,073	1,528	16,316
Stainless	150	13,229	3,935	2,131	33,685	1,265	1,321	205	1,211

Other Steel Products:									
Structural shapes - fabricated	636	2,951	5,226	36,746	86,249	330	917	1,050	70,784
Shapes - cold formed	...	115	...	4	957	21	36	...	8
Sashes and frames	39	314	110	129	2,402	390	543	61	224
Rails - used	...	...	...	...	...	...	...	...	...
Railway track material	53	20	115	28	481	13	15	71	559
Wheels and axles	...	5	2	10	816	883	989	4,250	6,825
Fence or sign posts	277	119	56	188	682	24	27	...	...
Wire rope	41	16	44	6	580	13	13	7	84
Wire strand	...	87	2	285	1,156	11	14	...	136
Wire springs	2	301	17	245	1,046	193	202	...	21
Grill, netting & fencing	7	28	77	31	454	2	35	1	996
Nails and staples	3	13	32	554	1,548	331	423	...	112
Barbed wire	...	9	58	15	169	13	18	...	259
Industrial fasteners	142	535	909	612	5,698	1,275	1,376	339	564
Architectural & ornamental work	...	1	18	51	81	11	13	1	74
Chains & parts	2	324	381	470	2,161	486	579	7	336
Cast steel rolls	23	116	3	5	148	18	18	...	...
Grinding balls	27	...	5,277	3,648	11,520	1,166	2,244	196	211
Conduit	36	5	13	20	1,061	19	19	66	67
Pipe & tube fittings	369	1,253	102	631	4,671	607	791	73	284
Total Other Steel Products	1,657	6,213	12,440	43,675	121,880	5,808	8,271	6,123	81,543
Total Steel Products	101,285	877,534	448,697	710,134	2,590,288	60,250	68,279	75,941	299,756
Iron Products & Ferroalloys:									
Cast iron tube,pipes,profiles & fittings	54	982	413	201	31,707	404	417	935	4,108
Malleable cast iron pipe fittings	3	200	39	145	1,648	364	378	112	156
Castings and forgings	208	483	162	155	3,477	925	1,066	167	431
Pig iron	...	23	...	10	754	...	...	...	228
Sponge iron	23	451	256	4,300	6,018	40	40	5	316
Ferroalloys	3	3,416	1,281	4,816	10,313	1,246	1,281	1,370	2,085
Total Iron Products & Ferroalloys	292	5,557	2,151	9,627	53,915	2,980	3,183	2,589	7,325
Grand Total	101,577	883,091	450,848	719,761	2,644,203	63,230	71,462	78,530	307,081
Iron and steel scrap	40,913	3,068,739	882,002	374,283	6,223,470	623	1,459	5,757	31,686

Table 18

Imports of Iron and Steel Products

(Net Tons)

Products	1991	1990	1989	1988	1987
Steel Mill Products:					
Ingots, blooms, billets, slabs, etc.	2,257,813	2,362,843	2,197,833	2,844,979	2,282,654
Wire rods	826,268	959,975	1,107,506	1,493,833	1,467,030
Structural shapes (3" & over)	459,900	826,279	1,399,379	1,847,287	1,778,314
Steel piling	63,258	89,748	86,337	112,067	109,705
Plates- cut lengths	801,255	958,537	937,518	1,175,461	1,096,424
-in coils	489,822	614,154	499,605	557,744	++
Rails and track accessories	155,435	132,614	157,411	268,493	227,869
Wheels and axles	+	+	+	+	18,120
Bars-Hot rolled	665,039	677,247	775,746	679,527	610,256
-Shapes under 3"	71,839	92,411	109,611	125,687	140,469
-Concrete reinforcing	107,345	147,883	233,735	357,253	351,632
-Cold finished	152,125	162,250	188,642	235,778	213,466
Tool steel	66,018	58,865	91,140	44,095	40,599
Standard pipe	836,944	951,585	806,325	964,039	859,204
Oil country goods	412,620	387,606	429,949	988,194	570,440
Line pipe	1,003,510	695,937	526,988	552,015	550,071
Mechanical tubing	169,833	186,243	281,059	381,682	283,619
Pressure tubing	35,881	38,044	44,944	50,908	26,528
Stainless pipe & tubing	48,219	47,221	37,259	38,532	28,231
Nonclassified pipe & tubing	6,699	9,629	12,612	28,429	23,332
Structural pipe & tubing	209,826	275,435	323,921	278,870	428,758
Pipe for piling	11,867	4,315	10,266	+++	+++
Wire-Drawn	391,808	432,340	494,308	552,780	568,407
-Bale ties & baling wire	+	+	+	+	1,719
-Galvanized wire fencing	+	+	+	+	13,172
-Wire nails	+	+	+	+	440,746
-Barbed wire	+	+	+	+	16,643
Black Plate	129,489	146,081	144,643	154,229	185,976
Tin plate	311,326	313,552	337,333	294,552	332,306
Tin free steel	114,269	114,046	114,903	97,460	101,172
Sheets-Hot rolled	2,120,803	2,281,717	1,898,494	2,206,599	2,515,178
-Cold rolled	1,887,409	2,048,666	1,876,999	2,105,755	2,244,958
Sheets & strip-Galv.-hot dipped	1,272,592	1,263,320	1,297,431 {	1,948,811	2,306,233
-electrolytic	247,359	385,960	327,813 {		
-All other metallic coated	189,859	192,493	235,830	248,111	323,709
-Electrical	81,977	76,164	85,329	73,960	69,824
Strip-Hot rolled	105,671	96,473	110,538	49,553	43,197
-Cold rolled	141,386	138,986	139,570	134,211	144,536
Total Steel Mill Products	**15,845,462**	**17,168,620**	**17,320,978**	**20,890,893**	**20,414,493**
Carbon	14,034,200	15,554,033	15,709,477	19,455,518	19,217,998
Alloy	1,423,670	1,233,927	1,259,056	1,119,418	902,082
Stainless	387,592	380,660	352,445	315,958	294,413

Other Steel Products:					
Structural shapes, fabricated	75,614	95,565	185,421	238,267	274,712
Shapes-Cold formed	10,508	9,011	7,372	1,302	1,107
Sashes and frames	8,423	9,391	14,297	6,104	7,996
Rails - used	102,551	170,288	94,182	...	...
Railway track material*	9,197	8,717	6,669	205	...
Wheels and axles*	33,064	35,338	58,873	50,734	...
Fence or sign posts	1,780	1,551	3,566	864	7,926
Wire-Nonmetalic coated	3,152	5,091	9,712	6,943	6,175
Wire rope	87,013	93,225	117,358	137,112	119,691
Wire strand	109,456	167,632	195,515	173,112	176,030
Wire springs	208,979	234,529	239,495	...	...
Woven wire fabric	8,324	8,651	11,754	51,594	54,796
Grill, netting & fencing*	43,421	54,362	70,258	11,879	...
Nails and staples**	290,269	376,291	390,594	406,837	48,298
Barbed wire+	11,167	15,350	12,440	15,538	...
Bale ties & baling wire	497	696	955	1,866	303
Industrial fasteners	682,801	722,023	752,357	710,370	692,844
Architectural & ornamental work	607	953	887	...	...
Chains & parts	65,689	73,563	73,085	...	...
Cast steel rolls	1,624	1,615	1,381	...	...
Grinding balls	12,872	8,966	5,607	5,874	4,655
Blanks, nonrectangular flat rolled	...	...	...	139,732	84,076
Conduit	314	472	1,107	7,261	9,543
Pipe & tube fittings	129,787	138,869	124,796	132,215	102,019
Total Other Steel Products	1,897,109	2,232,147	2,377,681	2,097,811	1,590,170
Total Steel Products	17,742,570	19,400,767	19,698,659	22,988,704	22,004,663
Iron Products & Ferroalloys:					
Bar iron, iron slabs and blooms, etc.	...	...	...	10	181
Cast iron tube, pipes, profiles & fittings	17,786	22,531	32,661	28,195	23,739
Malleable cast iron pipe fittings	25,228	30,112	32,806	24,067	19,310
Castings and forgings	150,574	176,154	198,654	198,082	195,622
Pig iron	478,754	382,738	488,175	700,059	354,799
Sponge iron	466,151	423,820	249,122	194,367	61,992
Ferroalloys	1,356,213	1,445,935	1,355,992	1,525,769	1,176,061
Total Iron Products & Ferroalloys	2,494,704	2,481,290	2,357,411	2,670,548	1,831,704
Grand Total	20,237,275	21,882,058	22,056,070	25,659,253	23,836,367
Iron and steel scrap	1,183,132	1,423,673	1,119,522	1,037,822	842,976

+Included in Other Steel Products. ++Included in Sheets Hot Rolled . +++Included in Structural Pipe & Tubing .

*Prior to 1988 included in Steel Mill Products. **Prior to 1988 part of the tonnage included in Steel Mill Products.

Table 19

Imports of Iron and Steel Products

(Net Tons)

Products	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Steel Mill Products:										
Ingots, blooms, billets, slabs, etc.	2,257,813	2,362,843	2,197,833	2,844,979	2,282,654	2,084,096	2,440,368	1,515,837	822,483	716,588
Wire rods	826,268	959,975	1,107,506	1,493,833	1,467,030	1,357,875	1,479,176	1,589,788	1,185,291	941,390
Structural shapes and pilings	523,158	916,027	1,485,716	1,959,354	1,888,019	1,855,617	2,118,518	2,155,625	1,558,275	1,598,340
Plates	1,291,077	1,572,691	1,437,123	1,733,205	1,096,424	1,106,904	1,377,921	1,538,495	1,103,199	1,619,527
Rails and accessories	155,435	132,614	157,411	268,493	245,989	275,710	382,045	373,890	159,353	340,272
Bars and tool steel	1,062,366	1,138,656	1,398,874	1,442,340	1,356,422	1,473,129	1,549,406	1,719,450	975,713	793,051
Pipe and tubing	2,735,399	2,596,015	2,473,323	3,282,669	2,770,183	2,936,811	4,463,668	5,421,713	2,862,061	5,249,948
Wire and wire products	391,808	432,340	494,308	552,780	1,040,687	1,022,026	1,055,821	1,178,715	872,187	625,303
Tin mill products	555,084	573,679	596,879	546,241	619,454	676,164	785,545	737,781	523,125	337,903
Sheets and strip	6,047,056	6,483,779	5,972,004	6,767,000	7,647,635	7,903,983	8,603,181	9,931,923	7,008,209	4,440,210
Total Steel Mill Products	15,845,462	17,168,620	17,320,978	20,890,893	20,414,493	20,692,316	24,255,651	26,163,218	17,069,895	16,662,532
Other Steel Products	1,897,109	2,232,147	2,377,681	2,097,811	1,590,170	1,662,344	1,601,783	1,510,189	1,068,782	1,025,177
Total Steel Products	17,742,570	19,400,767	19,698,659	22,988,704	22,004,663	22,354,660	25,857,434	27,673,407	18,138,677	17,687,709
Iron Products and Ferroalloys	2,494,704	2,481,290	2,357,411	2,670,548	1,831,704	1,883,140	1,775,108	1,874,666	1,162,707	1,082,293
Grand Total	20,237,275	21,882,058	22,056,070	25,659,253	23,836,367	24,237,800	27,632,542	29,548,073	19,301,384	18,770,002

Table 20

Imports of Steel Mill Products

(Net Tons)

Months	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
January	1,654,552	1,433,976	1,783,963	1,818,462	1,499,757	1,748,205	2,661,496	2,081,905	1,097,621	1,968,663
February	1,344,371	1,113,948	1,335,795	1,916,336	1,851,641	2,042,595	2,047,766	2,160,912	1,156,903	1,600,300
March	1,230,923	1,120,243	1,216,100	1,844,159	1,807,351	1,963,629	2,028,519	2,225,055	1,113,127	1,355,969
April	1,563,570	1,313,040	1,341,139	1,533,249	1,522,164	1,597,645	1,908,639	2,215,824	1,182,177	1,029,288
May	1,366,951	1,455,803	1,472,225	1,936,103	1,898,451	1,625,683	1,954,680	1,997,669	1,352,954	1,695,850
June	1,134,623	1,466,413	1,549,428	1,978,649	1,696,596	1,732,361	2,360,744	1,775,968	1,296,840	1,783,632
July	1,395,371	1,591,310	1,457,876	1,613,714	1,722,931	2,059,421	1,577,020	2,655,913	1,410,816	1,113,031
August	1,032,366	1,629,182	1,530,914	1,782,918	1,623,670	1,529,357	2,028,485	2,515,952	1,617,273	1,450,515
September	1,151,710	1,381,357	1,400,016	1,648,473	1,600,123	1,586,335	2,539,131	2,181,795	1,521,966	1,190,779
October	1,229,517	1,512,707	1,713,940	1,552,624	1,650,893	1,359,103	1,302,521	1,985,702	1,755,164	1,145,847
November	1,416,356	1,598,343	1,491,318	1,846,332	1,812,419	1,926,933	1,699,656	2,208,978	1,835,197	1,258,423
December	1,325,151	1,552,299	1,028,263	1,419,874	1,728,500	1,521,047	2,146,995	2,157,543	1,729,858	1,090,494
Total*	15,845,462	17,168,620	17,320,978	20,890,893	20,414,493	20,692,316	24,255,651	26,163,218	17,069,895	16,662,532

*Totals include adjustments not shown in monthly figures.

Table 21

Imports of Steel Mill Products by Countries of Origin

(Net Tons)

	1991			1990			1989			1988			1987		
	Net Tons	% Total	% U.S. Apparent Supply**	Net Tons	% Total	% U.S. Apparent Supply**	Net Tons	% Total	% U.S. Apparent Supply**	Net Tons	% Total	% U.S. Apparent Supply**	Net Tons	% Total	% U.S. Apparent Supply**
Canada	2,928,973	18.5	3.3	2,873,467	16.7	3.0	2,974,940	17.2	3.1	3,172,825	15.2	3.1	3,670,139	18.0	3.8
Mexico	499,687	3.2	0.6	644,907	3.8	0.7	439,517	2.5	0.5	471,209	2.3	0.5	487,361	2.4	0.5
Brazil	1,516,163	9.6	1.7	1,471,905	8.6	1.5	1,380,058	8.0	1.4	1,369,041	6.6	1.3	1,103,094	5.4	1.1
Argentina	194,740	1.2	0.2	188,154	1.1	0.2	211,094	1.2	0.2	534,406	2.6	0.5	330,906	1.6	0.3
Total Latin America	2,382,782	15.0	2.7	2,589,299	15.1	2.6	2,252,333	13.0	2.3	2,602,348	12.5	2.5	2,181,926	10.7	2.3
United Kingdom	616,364	3.9	0.7	811,965	4.7	0.8	860,688	5.0	0.9	815,296	3.9	0.8	745,241	3.7	0.8
Netherlands	492,896	3.1	0.6	457,334	2.7	0.5	468,013	2.7	0.5	554,534	2.7	0.5	491,461	2.4	0.5
Belgium-Luxembourg	565,389	3.6	0.6	676,871	3.9	0.7	733,241	4.2	0.8	852,527	4.1	0.8	762,364	3.7	0.8
France	920,317	5.8	1.0	1,151,089	6.7	1.2	1,176,423	6.8	1.2	1,243,815	6.0	1.2	1,088,406	5.3	1.1
West Germany	1,437,594	9.1	1.6	1,577,544	9.2	1.6	1,542,699	8.9	1.6	1,880,037	9.0	1.8	1,775,706	8.7	1.9
Italy	317,422	2.0	0.4	372,579	2.2	0.4	298,866	1.7	0.3	326,215	1.6	0.3	303,450	1.5	0.3
Spain	206,528	1.3	0.2	323,138	1.9	0.3	46,573	2.7	0.5	467,000	2.2	0.5	499,812	2.4	0.5
Total EEC*	4,673,525	29.5	5.3	5,455,272	31.8	5.6	5,579,472	32.2	5.8	6,226,426	29.8	6.1	5,801,787	28.4	6.0
Sweden	300,604	1.9	0.3	291,965	1.7	0.3	251,827	1.5	0.3	571,135	2.7	0.6	607,107	3.0	0.6
Finland	196,855	1.2	0.2	219,724	1.3	0.2	214,032	1.2	0.2	212,867	1.0	0.2	174,548	0.9	0.2
Austria	155,429	1.0	0.2	142,230	0.8	0.1	81,804	0.5	0.1	136,799	0.7	0.1	119,232	0.6	0.1
Turkey	97,416	0.6	0.1	130,955	0.8	0.1	201,072	1.2	0.2	284,354	1.4	0.3	407,413	2.0	0.4
Total Europe	5,644,498	35.6	6.4	6,455,444	37.6	6.6	6,647,965	38.4	6.9	8,024,561	38.4	7.8	7,626,415	37.3	8.0
Japan	2,820,175	17.8	3.2	3,114,961	18.2	3.2	3,652,850	21.1	3.8	4,290,289	20.5	4.2	4,321,042	21.2	4.5
Korea Republic	1,417,599	8.9	1.6	1,327,532	7.7	1.4	993,028	5.7	1.0	1,307,185	6.3	1.3	1,295,890	6.3	1.4
China-Taiwan	128,529	0.8	0.1	191,892	1.1	0.2	141,105	0.8	0.1	235,191	1.1	0.2	252,556	1.2	0.3
Total Asia & Africa	4,451,322	28.1	5.0	4,839,955	28.2	4.9	5,105,875	29.5	5.3	6,728,563	32.2	6.6	6,735,596	33.0	7.0
Oceania	437,887	2.8	0.5	410,455	2.4	0.4	339,865	2.0	0.4	362,597	1.7	0.3	200,417	1.0	0.2
Total Imports of Steel Mill Products	15,845,462	100.0	17.9	17,168,620	100.0	17.5	17,320,978	100.0	17.9	20,890,893	100.0	20.3	20,414,493	100.0	21.3

*Includes total for Denmark, Ireland, Greece and Portugal.

**As developed in table 1A of this Report.

Country detail may not add to regional total because of omissions of some countries.

Table 22

Imports of Iron and Steel Products by Countries of Origin–1991

(Net Tons)

			Latin America				
Products	Grand Total	Canada	Mexico	Vene-zuela	Brazil	Argen-tina	Total Latin Am.
Steel Mill Products:							
Ingots, blooms, billets, slabs, etc.	2,257,813	103,808	201,485	...	916,576	...	1,118,061
Wire rods	826,268	378,795	3,981	5,468	21,121	84	76,120
Structural shapes (3" & over)	459,900	174,787	5,510	...	5,800	6,407	19,112
Steel piling	63,258	17,399	...	...	...	...	...
Plates- cut lengths	801,255	95,549	19,343	...	73,959	...	93,302
-in coils	489,822	158,157	...	1,402	13,354	8,228	22,984
Rails-standard	90,390	1,614	...	...	...	2,999	2,999
-all other	61,251	391	69	...	...	...	69
Railroad accessories	3,794	3,748	...	...	...	...	...
Bars-hot rolled	665,039	246,018	5,097	112	59,412	3,187	77,278
-shapes under 3"	71,839	51,695	348	...	6,594	1,097	8,686
-concrete reinforcing	107,345	7,387	4,383	21,735	10,676	50	56,418
-cold finished	152,125	41,956	1,381	...	12,289	2,056	15,770
Tool steel	66,018	12,396	83	99	2,863	...	3,108
Standard pipe	836,944	119,364	48,017	16,402	67,267	1,985	134,399
Oil country goods	412,620	5,836	44,067	...	2,439	32,305	78,811
Line pipe	1,003,510	137,097	27,477	20,600	52,268	36,874	137,263
Mechanical tubing	169,833	39,926	6,109	954	4,608	302	12,020
Pressure tubing	35,881	784	1,616	402	11,466	184	13,668
Stainless pipe & tubing	48,219	4,479	511	10	2	3	526
Nonclassified pipe & tubing	6,699	2,426	21	30	...	...	51
Structural pipe & tubing	209,826	160,860	5,382	5	...	...	5,387
Pipe for piling	11,867	7,452	376	...	...	...	376
Wire-drawn	391,808	155,582	3,997	8,124	13,718	2,117	29,097
Black Plate	129,489	3,402	...	...	109	9,507	9,616
Tin plate	311,326	71,613	...	...	3,988	...	3,988
Tin free	114,269	26,976	...	...	398	...	398
Sheets-hot rolled	2,120,803	400,465	798	5,004	80,394	11,399	97,595
-cold rolled	1,887,409	112,432	38,471	8,301	127,095	60,796	235,009
Sheets & strip-galv.-hot dipped	1,272,592	220,966	35,246	4,557	16,254	14,160	70,221
-electrolytic	247,359	16,184	43,587	...	...	726	44,312
-all other metallic coated	189,859	7,937	1	...	...	39	54
-electrical	81,977	5,552	...	...	468	...	468
Strip-hot rolled	105,671	82,520	1,661	...	75	235	1,981
-cold rolled	141,386	53,418	669	...	12,969	...	13,638
Total Steel Mill Products	15,845,462	2,928,973	499,687	93,203	1,516,163	194,740	2,382,782
Carbon	14,034,200	2,498,780	413,441	93,094	1,429,292	180,325	2,195,078
Alloy	1,423,670	393,784	53,853	99	80,814	14,411	149,239
Stainless	387,592	36,409	32,393	10	6,057	3	38,464

Other Steel Products:							
Structural shapes, fabricated	75,614	24,556	1,868	165	5,083	9	7,169
Shapes-Cold formed	10,508	798	5,653	...	...	...	5,653
Sashes and frames	8,423	5,422	2,281	8	...	3	2,298
Rails - used	102,551	102,527	22	...	...	...	22
Railway track material	9,197	7,012	20	...	...	...	20
Wheels and axles	33,064	27,975	13	...	1,269	...	1,282
Fence or sign posts	1,780	78	26	2	...	...	32
Wire-Nonmetalic coated	3,152	558	...	...	...	...	4
Wire rope	87,013	6,573	3,113	36	2,696	175	6,777
Wire strand	109,456	3,756	5,961	...	3,611	3,618	13,404
Wire springs	208,979	141,411	32,528	703	2,636	160	36,468
Woven wire fabric	8,324	497	651	...	...	6	658
Grill, netting & fencing	43,421	10,334	15,636	5,817	21	11	21,873
Nails and staples	290,269	81,025	3,033	558	49	...	11,882
Barbed wire	11,167	649	1,554	325	6,721	...	9,176
Bale ties & baling wire	497	436	...	...	...	...	...
Industrial fasteners	682,801	98,096	14,466	275	3,633	92	18,510
Architectural & ornamental work	607	60	263	...	...	6	269
Chains & parts	65,689	5,570	472	...	54	5	540
Cast steel rolls	1,624	12	...	...	57	...	60
Grinding balls	12,872	8,095	997	...	34	...	1,147
Conduit	314	2	102	86	...	...	188
Pipe & tube fittings	129,787	6,740	6,498	3,337	4,761	996	15,595
Total Other Steel Products	1,897,109	532,185	95,156	11,311	30,627	5,081	153,027
Total Steel Products	17,742,570	3,461,158	594,843	104,514	1,546,790	199,821	2,535,809
Iron Products & Ferroalloys:							
Cast iron tube, pipes, profiles & fittings	17,786	658	2,287	1,395	292	...	3,979
Malleable cast iron pipe fittings	25,228	275	74	1	2,209	...	2,285
Castings and forgings	150,574	11,970	11,953	253	12,082	819	25,373
Pig iron	478,754	92,874	88	...	361,120	...	361,209
Sponge iron	466,151	36,615	32	389,236	4,741	...	394,017
Ferroalloys	1,356,213	50,927	70,903	47,461	146,866	16,847	308,118
Total Iron Products & Ferroalloys	2,494,704	193,320	85,337	438,346	527,310	17,665	1,094,981
Grand Total	20,237,273	3,654,478	680,180	542,860	2,074,100	217,486	3,630,790
Iron and steel scrap	1,183,132	984,255	71,073	43,439	4,605	68	125,896

Country detail may not add to regional total because of omissions of some countries.

Table 22 (continued)

Imports of Iron and Steel Products by Country of Origin -1991

(Net Tons)

	Europe													
	European Economic Community													Total Other Europe
Products	United Kingdom	Fed. Rep. Germany	Nether-lands	Belgium	Luxem-bourg	France	Spain	Italy	Total E.E.C.*	Sweden	Finland	Austria	Turkey	
Steel Mill Products:														
Ingots, blooms, billets, slabs, etc.	219,798	245,205	63,862	60,691	...	125,542	104	2,383	717,584	104,916	46,472	22	...	151,870
Wire rods	588	17,051	174	126	12,401	54,352	3,780	2,922	91,393	4,742	...	3	64,337	69,096
Structural shapes (3" & over)	67,726	8,025	65	18,545	69,839	1,743	41,832	576	208,352	351	...	78	...	24,738
Steel piling	8,602	7,216	...	3,098	18,167	6,348	...	...	43,431	15	...	...	...	15
Plates- cut lengths	41,869	50,219	131	101,192	...	20,161	69,581	18,968	304,936	88,122	55,762	553	...	258,508
-in coils	4,639	63,403	34,937	32,453	...	103,827	29	11,464	252,378	5,053	18,949	17	...	29,297
Rails-standard	5,838	3,662	...	83	8,501	2,841	...	...	20,925	...	...	567	...	567
-all other	11,687	3,670	...	106	9,485	1	...	2	24,951	...	...	2,942	...	2,942
Railroad accessories	19	...	...	...	27	...	...	...	46	...	...	...	...	...
Bars-hot rolled	136,520	42,853	3,589	275	361	42,574	7,481	1,341	234,993	6,201	...	562	525	7,954
-shapes under 3"	475	297	...	296	...	81	...	421	1,586	1,034	...	73	...	1,107
-concrete reinforcing	2,205	54	...	...	...	...	...	...	2,258	...	...	...	26,819	26,819
-cold finished	22,227	5,468	10	411	...	29,110	8,404	2,850	68,486	2,135	1,266	105	27	4,283
Tool steel	1,823	10,817	180	82	...	1,639	127	3,097	17,764	14,520	172	4,139	...	19,389
Standard pipe	3,668	51,308	6,350	1,135	779	10,471	5,785	13,840	94,790	832	...	...	3,710	36,438
Oil country goods	802	89,086	851	57	...	7,721	13,655	14,615	134,417	36	2,015	9,815	817	17,314
Line pipe	7,121	153,944	49	7,668	...	52,067	124	64,144	314,539	75	...	60,211	...	61,035
Mechanical tubing	2,078	28,411	433	121	1,115	3,207	4,603	7,177	47,145	7,966	...	4,191	1,181	15,880
Pressure tubing	210	3,451	236	...	45	5,675	1,661	1,583	12,863	971	...	...	...	1,196
Stainless pipe & tubing	1,238	517	650	...	3	1,446	4,969	2,729	11,554	908	2	441	...	3,369
Nonclassified pipe & tubing	...	419	...	...	...	...	...	...	1,424	2	...	...	...	3
Structural pipe & tubing	309	4,342	...	41	...	2,994	3	79	7,768	21	1,082	...	...	1,373
Pipe for piling	...	3,341	...	...	...	479	...	...	3,820	...	...	...	...	...
Wire-drawn	17,041	11,713	170	33,525	1,647	26,622	1,043	3,143	94,904	10,269	54	1,106	...	12,491
Black Plate	177	1,933	7,912	5,652	...	3,700	...	...	33,620	...	...	...	...	...
Tin plate	234	31,457	11,617	3,405	...	17,961	1,920	...	68,130	...	...	...	...	19,923
Tin free	73	13,077	...	110	...	7,596	...	...	20,857	...	...	...	...	...
Sheets-hot rolled	5,284	180,092	205,225	47,283	...	167,278	1,471	82,191	688,824	10,168	25,803	1,449	...	46,310
-cold rolled	31,904	242,748	145,458	119,439	745	144,774	37,673	50,730	788,651	5,254	21,322	66,597	...	93,206
Sheets & strip-galv.-hot dipped	10,627	112,509	10,173	3,202	...	52,603	2,074	11,328	242,448	19,590	23,582	...	...	43,172
-electrolytic	2,916	21,836	701	...	...	1,361	...	773	29,688	5	293	...	...	298
-all other metallic coated	1,458	3,424	2	828	334	17,155	...	4,108	27,309	396	81	149	...	626
-electrical	857	6,967	...	46	...	1,815	...	13,535	23,221	12,440	...	1	...	12,694
Strip-hot rolled	115	4,630	...	...	...	88	...	2,633	7,465	24	...	2,234	...	2,259
-cold rolled	6,237	14,453	120	2,070	...	7,084	209	788	31,005	4,558	...	177	...	6,803
Total Steel Mill Products	616,364	1,437,594	492,896	441,939	123,450	920,317	206,528	317,422	4,673,525	300,604	196,855	155,429	97,416	970,973
Carbon	542,393	1,318,583	482,058	421,432	118,361	843,471	158,819	253,444	4,255,568	202,269	160,155	139,408	97,416	813,524
Alloy	49,233	101,571	10,118	10,846	5,086	41,560	15,438	46,318	280,170	64,728	27,853	14,901	...	110,155
Stainless	24,739	17,441	720	9,661	3	35,286	32,270	17,660	137,787	33,607	8,846	1,119	...	47,294

Other Steel Products:														
Structural shapes, fabricated	5,302	2,269	2,744	65	...	401	14	128	11,078	108	7	...	...	264
Shapes-Cold formed	538	1,866	...	587	...	20	...	79	3,091	204	...	227	...	431
Sashes and frames	62	54	28	3	...	7	...	48	202	34	...	...	...	55
Rails - used	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Railway track material	...	55	...	2	149	12	...	1	219	...	...	133	...	425
Wheels and axles	...	273	...	...	...	15	...	198	486	1	...	...	...	44
Fence or sign posts	86	38	4	20	...	...	...	1	150	79	2	...	...	97
Wire-Nonmetalic coated	956	...	17	1,461	...	101	...	...	2,535	...	...	...	...	...
Wire rope	1,770	2,234	512	2,376	17	2,574	649	2,037	12,641	1	4	155	1,944	2,726
Wire strand	1,098	2,174	377	9,374	3,008	7,417	8,273	14,662	46,427	20	...	4	302	336
Wire springs	590	5,165	38	34	...	53	...	249	6,154	68	1	24	...	312
Woven wire fabric	216	595	138	33	...	38	5	...	1,193	...	...	13	...	55
Grill, netting & fencing	1,557	377	215	633	...	32	463	1,220	4,527	10	...	...	...	11
Nails and staples	558	3,702	83	118	...	1,007	7,564	547	13,592	1,895	...	1,781	5,688	21,852
Barbed wire	...	...	...	244	...	...	...	...	244	...	...	...	...	711
Bale ties & baling wire	4	3	1	1	...	1	...	...	9	4	...	3	...	7
Industrial fasteners	1,422	7,159	3,499	632	4	938	260	10,496	24,751	1,732	2,444	269	...	9,710
Architectural & ornamental work	...	11	...	...	...	18	...	...	29	...	...	...	...	...
Chains & parts	1,914	5,088	76	321	...	626	756	3,786	12,660	638	227	403	37	3,896
Cast steel rolls	124	146	...	108	...	593	7	...	979	...	...	72	...	72
Grinding balls	241	687	605	20	...	...	...	1,869	3,422	...	...	...	...	2
Conduit	3	1	...	...	...	...	...	...	5	...	...	...	...	...
Pipe & tube fittings	2,272	6,745	136	12	...	3,805	172	8,206	21,453	40	14	531	...	2,074
Total Other Steel Products	18,713	38,643	8,472	16,045	3,178	17,659	18,164	43,527	165,847	4,832	2,699	3,616	7,972	43,079
Total Steel Products	635,077	1,476,237	501,368	457,984	126,628	937,976	224,692	360,949	4,839,372	305,436	199,554	159,045	105,388	1,014,052
Iron Products & Ferroalloys:														
Cast iron tube, pipes, profiles & fittings	38	20	27	1	...	...	...	34	120	...	...	...	...	31
Malleable cast iron pipe fittings	286	51	9	3	...	83	...	35	491	1	...	...	...	17
Castings and forgings	2,016	5,464	368	144	...	2,186	1,041	18,912	30,655	29	1	1	...	913
Pig iron	...	...	...	...	...	...	...	...	...	...	...	...	...	1,109
Sponge iron	160	559	72	179	...	...	301	90	1,361	349	...	53	...	23,583
Ferroalloys	34,568	35,307	194	1,242	...	109,118	3,316	7,679	192,826	7,633	33,507	202	65,013	313,835*
Total Iron Products & Ferroalloys	37,067	41,401	670	1,569	...	111,386	4,658	26,751	225,453	8,011	33,508	257	65,013	339,489
Grand Total	672,144	1,517,638	502,038	459,553	126,628	1,049,362	229,350	387,700	5,064,825	313,447	233,062	159,302	170,401	1,353,541
Iron and steel scrap	10,355	2,457	...	197	...	17	34	53	13,113	...	...	...	...	362

*Includes total for Ireland, Denmark, Greece, & Portugal.

Table 22 (continued)

Imports of Iron and Steel Products by Country of Origin–1991

(Net Tons)

	Asia					Oceania		Africa
Products	Peoples Republic of China	Korea Republic	China Taiwan	Japan	Total Asia	Australia	Total Oceania	Total Africa
Steel Mill Products:								
Ingots, blooms, billets, slabs, etc.	1	1	1	5,550	5,552	160,938	160,938	...
Wire rods	45	1,604	775	189,854	194,028	16,836	16,836	...
Structural shapes (3" & over)	41	2,367	549	29,838	32,910	...	...	...
Steel piling	...	...	...	2,413	2,413	...	...	...
Plates- cut lengths	...	15,186	...	32,203	47,408	616	1,550	2
-in coils	...	14,010	...	7,556	21,566	92	5,374	66
Rails-standard	...	137	...	64,149	64,286	...	...	...
-all other	...	2,616	...	30,282	32,898	...	...	...
Railroad accessories	...	...	...	...	...	...	...	...
Bars-hot rolled	3,585	2,511	108	84,430	96,720	2,005	2,052	24
-shapes under 3"	...	4,355	103	4,306	8,764	...	1	...
-concrete reinforcing	...	14,448	...	6	14,462	...	...	...
-cold finished	695	2,613	169	15,296	21,629	...	...	...
Tool steel	299	254	...	12,808	13,361	...	...	...
Standard pipe	968	324,608	42,531	56,759	447,167	6	216	4,569
Oil country goods	...	21,268	10	154,224	176,241	...	...	...
Line pipe	...	36,780	468	307,457	352,155	...	...	1,422
Mechanical tubing	...	2,580	8,825	41,731	54,663	199	199	...
Pressure tubing	...	1,036	20	6,209	7,371	...	...	...
Stainless pipe & tubing	228	5,391	9,334	11,333	28,284	7	7	...
Nonclassified pipe & tubing	...	2,787	3	5	2,796	...	...	...
Structural pipe & tubing	...	8,685	328	13,061	34,437	...	...	...
Pipe for piling	...	219	...	...	219	...	...	...
Wire-drawn	7,418	5,722	11,750	62,118	94,608	4,884	5,104	22
Black Plate	...	...	176	82,676	82,852	...	...	...
Tin plate	...	1,054	...	141,816	142,870	4,801	4,801	...
Tin free	...	...	...	66,038	66,038	...	...	...
Sheets-hot rolled	...	704,798	...	165,625	870,429	...	17,181	...
-cold rolled	18	117,164	31,035	466,442	615,329	26,956	42,782	...
Sheets & strip-galv.-hot dipped	22	87,978	20,326	471,730	580,057	85,335	115,727	...
-electrolytic	...	32,968	...	123,779	156,747	...	129	...
-all other metallic coated	...	3,952	623	87,073	91,647	62,264	62,286	...
-electrical	...	...	...	40,043	40,043	...	...	...
Strip-hot rolled	...	216	...	11,092	11,309	138	138	...
-cold rolled	...	292	1,395	32,270	33,957	2,565	2,565	...
Total Steel Mill Products	13,319	1,417,599	128,529	2,820,175	4,445,217	367,642	437,887	6,105
Carbon	12,759	1,394,492	116,995	2,246,399	3,829,492	365,504	435,745	6,013
Alloy	332	2,753	491	483,883	488,166	2,127	2,131	24
Stainless	228	20,353	11,043	89,893	127,560	11	11	68

Other Steel Products:								
Structural shapes, fabricated	1,653	9,640	348	18,097	31,298	8	947	302
Shapes-Cold formed	11	4	480	36	532	3	3	...
Sashes and frames	88	20	15	7	428	18	18	...
Rails - used	...	...	...	...	2	...	...	...
Railway track material	...	11	19	168	198	1,323	1,323	...
Wheels and axles	14	...	60	2,956	3,214	...	...	63
Fence or sign posts	203	270	724	28	1,423	...	...	...
Wire-Nonmetalic coated	...	...	44	9	54	...	...	...
Wire rope	836	53,016	868	2,797	58,294	2	2	...
Wire strand	139	10,370	89	33,108	45,530	...	2	...
Wire springs	5,794	533	940	9,558	24,414	10	20	200
Woven wire fabric	1,323	776	398	3,277	5,798	...	123	...
Grill, netting & fencing	4,974	331	325	91	5,801	...	868	5
Nails and staples	17,913	92,754	9,994	8,717	161,773	2	104	41
Barbed wire	...	158	...	...	244	...	142	2
Bale ties & baling wire	2	11	28	...	45	...	...	...
Industrial fasteners	55,904	34,265	319,741	109,795	530,442	993	1,038	253
Architectural & ornamental work	...	...	193	...	248	...	...	...
Chains & parts	14,408	1,667	12,810	13,079	42,950	13	14	58
Cast steel rolls	13	117	...	371	500	...	...	...
Grinding balls	26	...	28	141	195	11	11	...
Conduit	...	...	17	102	119	...	...	...
Pipe & tube fittings	50,921	3,755	4,662	9,874	83,873	50	52	...
Total Other Steel Products	154,223	207,698	351,785	212,211	997,377	2,430	4,668	924
Total Steel Products	167,542	1,625,297	480,314	3,032,386	5,442,594	370,072	442,555	7,029
Iron Products & Ferroalloys:								
Cast iron tube, pipes, profiles & fittings	6,449	445	5,012	61	12,996	...	2	...
Malleable cast iron pipe fittings	8,363	969	834	1,269	22,155	1	5	...
Castings and forgings	14,253	3,041	4,229	1,667	81,615	...	3	43
Pig iron	...	...	...	...	146	...	...	23,416
Sponge iron	1,860	26	4	8,681	10,573	2	2	...
Ferroalloys	28,593	...	4	5,441	41,371	51,518	60,954	388,182
Total Iron Products & Ferroalloys	59,516	4,481	10,084	17,118	168,854	51,521	60,966	411,641
Grand Total	227,058	1,629,778	490,398	3,049,504	5,611,448	421,593	503,521	418,670
Iron and steel scrap	96	1,171	8	57,780	59,482	...	...	25

Table 23

Imports of Iron and Steel Products by Customs District-1991

(Net Tons)

		ATLANTIC COAST											
Products	Grand Total	Boston	Providence	New York City	Philadelphia	Baltimore Wash.,DC	Norfolk	Wilmington	Charleston	Savannah	Tampa	Miami	Total
Steel Mill Products:													
Ingots, blooms, billets, slabs, etc.	2,257,813	176	...	145,420	37,038	45,664	22	62	110	2,235	...	...	230,726
Wire rods	826,268	4,895	...	9,395	5,794	4,913	4,774	375	7,020	65,868	44,835	186	148,056
Structural shapes (3" & over)	459,900	13,458	752	6,021	11,635	1,810	483	2,445	169	13,460	4,308	288	54,829
Steel piling	63,258	2,203	3,132	1,622	1,293	2,441	...	1,598	...	4,932	1,329	2,582	21,132
Plates- cut lengths	801,255	29,166	1,565	1,478	37,345	10,352	78	9,020	26	32,001	17,927	1,005	139,963
-in coils	489,822	3,829	117	1,509	31,771	2,310	1,175	10,142	3,840	2,542	7,820	57	65,114
Rails-standard	90,390	...	...	20	1,287	545	...	...	181	46	4,993	83	7,155
-all other	61,251	21	933	...	3,141	177	...	19	2	428	10,003	144	14,869
Railroad accessories	3,794	...	...	...	...	...	...	...	...	...	...	...	...
Bars-hot rolled	665,039	4,046	462	3,949	19,537	7,205	166	11,394	437	14,129	2,247	49	63,622
-shapes under 3"	71,839	75	...	741	1,881	741	141	64	142	1,787	425	12	6,009
-concrete reinforcing	107,345	...	...	28	...	3	...	...	...	...	...	...	30
-cold finished	152,125	1,488	68	9,503	9,004	2,136	395	2,694	1,246	2,920	69	306	29,831
Tool steel	66,018	11,515	559	5,589	1,811	9,299	552	1,072	5,044	4,787	...	9	40,238
Standard pipe	836,944	3,411	...	126	58,463	1,651	624	3,418	930	30,473	39,476	1,084	139,655
Oil country goods	412,620	4	...	16	...	...	...	...	...	...	10	20	50
Line pipe	1,003,510	...	...	287	22,344	77	16	344	...	2,761	158,550	...	184,379
Mechanical tubing	169,833	47	...	990	5,543	8,054	233	191	2,259	5,135	1,015	931	24,399
Pressure tubing	35,881	...	...	101	3,739	36	105	4	193	4,423	71	284	8,956
Stainless pipe & tubing	48,219	14	...	2,775	8,099	32	70	71	313	2,866	912	78	15,230
Nonclassified pipe & tubing	6,699	...	...	7	...	1	...	1,197	3	230	602	1	2,040
Structural pipe & tubing	209,826	...	...	59	1,057	33	79	...	37	648	5,184	...	7,096
Pipe for piling	11,867	...	...	...	124	...	...	...	...	...	65	...	189
Wire-drawn	391,808	2,077	159	17,564	4,531	11,114	1,520	4,970	15,764	4,301	1,586	2,167	65,753
Black Plate	129,489	12,733	740	15,958	12,354	397	...	51	...	1,307	1,394	...	44,934
Tin plate	311,325	1,485	3,304	477	19,973	1,835	...	4,126	38	4,957	8,054	...	44,248
Tin free	114,269	...	...	14	5,988	109	...	...	...	...	544	...	6,655
Sheets-hot rolled	2,120,803	49,890	9,162	24,613	68,770	28,704	774	37,160	2,876	10,581	6,460	5,178	244,167
-cold rolled	1,887,409	102,412	19,530	45,766	234,400	18,714	12,113	25,840	2,025	47,270	9,148	4,666	521,884
Sheets & strip-galv.-hot dipped	1,272,592	12,757	1,990	7,029	121,357	544	64,013	15,572	2,265	32,656	57,529	10,726	326,436
-electrolytic	247,359	418	...	1,331	30,211	4	8,499	2,248	...	2,390	8,027	239	53,367
-all other metallic coated	189,859	1,239	19	420	14,912	1,020	2,851	1,101	1,407	6,333	871	...	30,175
-electrical	81,977	10,093	...	56	2,030	4,494	2,294	...	32	7,392	320	...	26,711
Strip-hot rolled	105,671	8,053	355	175	744	1,165	48	2,205	108	25	493	2	13,371
-cold rolled	141,386	3,018	680	13,960	9,460	5,476	824	723	4,595	5,583	19	41	44,379
Total Steel Mill Products	15,845,462	278,521	43,528	316,998	785,638	171,057	101,848	138,105	51,063	314,466	394,284	30,141	2,625,648
Carbon	14,034,200	242,944	37,749	252,858	680,462	101,045	85,387	132,437	35,626	261,258	391,725	29,929	2,251,421
Alloy	1,423,670	29,471	2,496	21,915	65,896	39,593	11,353	4,258	10,084	34,061	1,317	49	220,493
Stainless	387,592	6,105	3,283	42,225	39,280	30,419	5,109	1,410	5,352	19,147	1,241	163	153,735

Other Steel Products:													
Structural shapes, fabricated	75,614	2,673	...	725	326	841	3,992	100	356	5,611	1,729	843	17,194
Shapes-Cold formed	10,508	305	...	167	25	96	52	80	22	105	1	...	853
Sashes and frames	8,423	4	...	151	4	30	14	...	1	...	6	2	212
Rails - used	102,551	...	...	...	...	...	...	...	...	...	2	...	2
Railway track material	9,197	...	...	12	...	24	7	...	...	19	...	...	62
Wheels and axles+	33,064	1	...	237	3,044	275	182	...	...	50	3	190	3,982
Fence or sign posts	1,780	241	...	461	7	103	102	...	88	227	...	2	1,229
Wire-Nonmetalic coated	3,152	43	...	1,562	...	...	...	...	...	...	...	30	1,635
Wire rope	87,013	2,874	53	6,184	964	4,328	706	398	8,031	3,041	2,107	428	29,115
Wire strand	109,456	135	...	4,743	154	1,075	2,900	816	17,859	10,105	1,808	2,476	42,072
Wire springs	208,979	104	24	755	6,151	1,153	1,273	48	1,495	393	177	1,261	12,833
Woven wire fabric	8,324	15	...	1,590	354	169	...	1	50	6	1	113	2,299
Grill, netting & fencing	43,421	109	...	734	148	248	237	8	1,980	97	458	5,192	9,210
Nails and staples	290,269	2,557	1,358	12,422	18,072	5,414	1,142	11,234	5,062	8,111	6,717	4,884	76,973
Barbed wire	11,167	21	...	451	19	78	...	360	79	19	157	517	1,701
Bale ties & baling wire	497	4	...	21	...	...	...	1	...	...	2	...	28
Industrial fasteners	682,801	9,184	5,459	57,837	15,104	18,951	8,264	4,655	2,847	22,007	7,158	6,056	157,521
Architectural & ornamental work	607	5	...	...	...	43	...	...	...	2	...	2	52
Chains & parts	65,689	871	3	6,121	1,627	1,499	1,314	88	1,640	1,336	480	677	15,656
Cast steel rolls	1,624	...	...	51	50	9	92	...	82	...	12	...	296
Grinding balls	12,872	56	...	2,020	...	142	185	3	1	...	...	...	2,407
Conduit	314	...	...	17	...	1	...	...	...	91	...	...	108
Pipe & tube fittings	129,787	314	...	6,081	1,650	1,154	1,123	132	749	2,536	7,628	258	21,625
Total Other Steel Products	1,897,109	19,513	6,896	102,342	47,698	35,632	21,587	17,924	40,343	53,755	28,446	22,932	397,068
Total Steel Products	17,742,572	298,034	50,424	419,340	833,336	206,689	123,435	156,029	91,406	368,221	422,730	53,073	3,022,717
Iron Products & Ferroalloys:													
Cast iron tube, pipes, profiles & fittings	17,786	37	...	1,988	189	3	999	1	269	74	186	57	3,802
Malleable cast iron pipe fittings	25,228	63	...	2,983	657	346	246	2	711	419	1,157	245	6,829
Castings and forgings	150,574	2,498	...	21,422	3,158	8,158	6,632	898	971	6,405	804	351	51,297
Pig iron	478,754	3,893	...	...	6,139	...	11,767	...	...	2,941	...	...	24,740
Sponge iron	466,151	150	...	2,040	12,810	11,414	...	3	20,815	1,162	...	95	48,489
Ferroalloys	1,356,213	44	...	964	37,647	134,701	1,155	239	10,065	2,081	12,647	...	199,543
Total Iron Products & Ferroalloys	2,494,704	6,685	...	29,397	60,599	154,622	20,799	1,143	32,832	13,082	14,793	748	334,700
Grand Total	20,237,275	304,719	50,424	448,737	893,935	361,311	144,234	157,172	124,238	381,303	437,523	53,821	3,357,417
Iron and steel scrap	1,183,132	...	...	602	88	26,233	395	...	...	697	5,313	574	33,902

Table 23 (continued)

Imports of Iron and Steel Products by Customs District–1991

(Net Tons)

	GULF COAST–MEXICAN BORDER							
Products	Mobile	New Orleans	Port Arthur	Houston	Dallas	Laredo	El Paso Nogales	Total
Steel Mill Products:								
Ingots, blooms, billets, slabs, etc.	209,941	138,679	232,715	28,298	2	5,505	...	615,140
Wire rods	16,597	103,450	...	77,717	1,541	...	...	199,305
Structural shapes (3" & over)	8,076	38,869	...	53,782	...	2,222	131	103,081
Steel piling	1,087	3,342	...	9,045	...	...	27	13,501
Plates- cut lengths	22,002	103,055	...	223,606	74	19,216	...	367,953
-in coils	31,794	7,091	164	87,128	3,179	...	...	129,356
Rails-standard	22,107	677	...	3,531	...	...	...	26,315
-all other	27,460	4,844	...	1,900	...	69	...	34,274
Railroad accessories	...	...	...	...	...	...	...	...
Bars-hot rolled	238	90,252	...	23,831	266	1,986	7	116,580
-shapes under 3"	48	1,108	...	864	...	345	...	2,365
-concrete reinforcing	...	56	...	2,228	...	4,358	...	6,642
-cold finished	94	8,552	...	26,228	...	597	61	35,532
Tool steel	5	996	...	605	...	83	...	1,689
Standard pipe	85	56,777	...	149,365	17	47,114	8	253,366
Oil country goods	...	30,035	...	334,590	3	6	...	364,634
Line pipe	1,540	199,014	...	271,353	...	25,917	830	498,654
Mechanical tubing	336	9,733	...	59,647	30	2,830	16	72,592
Pressure tubing	23	4,436	...	16,059	979	1,616	...	23,113
Stainless pipe & tubing	286	1,902	...	12,380	75	502	...	15,145
Nonclassified pipe & tubing	...	1,095	...	744	1	...	...	1,840
Structural pipe & tubing	422	1,471	...	8,214	...	5,350	...	15,456
Pipe for piling	...	225	...	3,595	...	331	45	4,196
Wire-drawn	23	24,903	...	16,014	2,587	3,055	2	46,584
Black Plate	...	15,077	...	3,355	...	...	...	18,432
Tin plate	9,104	37,015	...	5,760	...	...	...	51,880
Tin free	2,769	13,002	...	5,040	...	...	...	20,812
Sheets-hot rolled	21,884	65,477	130	182,467	179	764	...	270,901
-cold rolled	8,009	235,154	...	150,895	...	38,449	...	432,507
Sheets & strip-galv.-hot dipped	474	155,615	201	110,119	125	35,246	...	301,781
-electrolytic	...	27,926	...	8,309	...	43,587	...	79,822
-all other metallic coated	...	54,712	...	11,255	...	1	9	65,977
-electrical	...	28,009	...	4,521	...	...	...	32,530
Strip-hot rolled	...	2,840	...	1,586	...	1,661	61	6,149
-cold rolled	245	7,121	...	5,247	...	678	...	13,291
Total Steel Mill Products	384,648	1,472,508	233,210	1,899,281	9,058	241,489	1,197	4,241,391
Carbon	374,111	1,255,224	225,198	1,550,980	7,564	207,290	1,118	3,621,484
Alloy	2,822	195,621	8,012	307,407	1,290	1,838	78	517,068
Stainless	7,715	21,663	...	40,894	204	32,361	2	102,839

Other Steel Products:								
Structural shapes, fabricated	95	3,161	...	4,632	9	641	23	8,561
Shapes-Cold formed	...	13	...	305	2	5,651	...	5,971
Sashes and frames	1	96	...	62	...	747	3	908
Rails - used	...	...	...	...	...	22	...	22
Railway track material	133	...	...	335	...	20	...	487
Wheels and axles+	...	...	...	10	...	...	13	23
Fence or sign posts	4	40	...	20	1	7	...	72
Wire-Nonmetalic coated	...	16	...	5	...	...	...	21
Wire rope	2,022	9,263	...	13,907	18	2,786	...	27,995
Wire strand	353	16,059	...	19,724	4,482	5,919	22	46,560
Wire springs	4	4,983	...	3,212	4,174	28,345	32	40,750
Woven wire fabric	...	1	...	2,132	793	121	...	3,047
Grill, netting & fencing	...	374	...	316	581	13,383	1,373	16,028
Nails and staples	112	18,129	...	18,629	309	2,499	71	39,749
Barbed wire	...	4,454	...	1,498	26	1,187	365	7,530
Bale ties & baling wire	...	1	...	...	1	...	...	1
Industrial fasteners	7,398	14,621	...	36,463	3,040	13,959	271	75,752
Architectural & ornamental work	192	19	...	4	1	138	...	354
Chains & parts	130	4,350	...	2,255	748	179	326	7,988
Cast steel rolls	7	243	...	37	...	...	...	287
Grinding balls	...	...	...	327	...	997	...	1,324
Conduit	...	...	...	...	...	102	...	102
Pipe & tube fittings	1,717	7,379	...	49,611	57	3,593	79	62,436
Total Other Steel Products	12,166	83,201	...	153,486	14,244	80,296	2,579	345,971
Total Steel Products	396,814	1,555,709	233,210	2,052,767	23,302	321,785	3,776	4,587,363
Iron Products & Ferroalloys:								
Cast iron tube, pipes, profiles & fittings	...	152	...	775	25	928	1,021	2,901
Malleable cast iron pipe fittings	363	1,102	...	3,383	576	54	148	5,627
Castings and forgings	6,638	5,414	...	32,357	481	8,000	817	53,706
Pig iron	...	395,606	...	...	...	2,619	...	398,225
Sponge iron	...	309,349	...	7	74	32	...	309,462
Ferroalloys	56,174	923,485	...	784	...	257	5	980,705
Total Iron Products & Ferroalloys	63,176	1,635,109	...	37,305	1,156	11,889	1,992	1,750,626
Grand Total	459,990	3,190,818	233,210	2,090,072	24,458	333,674	5,768	6,337,989
Iron and steel scrap	...	48,399	333	2,410	...	34,782	9,374	95,298

Table 23 (continued)

Imports of Iron and Steel Products by Customs District-1991

(Net Tons)

	PACIFIC COAST						OFF SHORE				
Products	San Diego	Los Angeles	San Francisco	Columbia Snake	Seattle	Total	Virgin Islands	Anch-orage	Hono-lulu	San Juan	Total
Steel Mill Products:											
Ingots, blooms, billets, slabs, etc.	81	1,235,836	510	5,042	1,212	1,242,681	...	...	...	...	...
Wire rods	...	45,276	19,351	...	6,126	70,753	...	...	...	12,199	12,199
Structural shapes (3" & over)	3,157	37,806	22,469	7,059	1,740	72,232	6	...	2	7,528	7,537
Steel piling	...	725	3,271	978	175	5,150	...	2,327	...	364	2,692
Plates- cut lengths	127	24,281	3,756	14,778	12,191	55,133	...	...	607	4,575	5,182
-in coils	...	31,314	1,050	6,364	4,453	43,182	...	...	...	167	167
Rails-standard	...	20	...	51,973	33	52,028	...	264	...	...	264
-all other	2	345	2,700	5,726	3	8,775	...	...	...	...	...
Railroad accessories	...	...	...	27	1,201	1,229	...	73	...	...	73
Bars-hot rolled	3,099	28,095	1,572	1,247	1,088	35,101	...	...	...	11,300	11,300
-shapes under 3"	3	2,820	466	576	244	4,108	...	17	...	5,846	5,863
-concrete reinforcing	25	7,523	3,815	566	312	12,241	7,013	...	2,314	72,518	81,845
-cold finished	723	11,087	939	3,135	1,727	17,611	66	...	...	603	669
Tool steel	...	810	2	402	320	1,534	...	...	...	...	...
Standard pipe	1,033	185,714	27,731	46,722	30,442	291,642	20	167	1,728	6,683	8,598
Oil country goods	...	22,915	586	...	560	24,061	...	16,635	731	...	17,366
Line pipe	...	136,572	3,444	4,491	7,666	152,173	...	18,216	...	491	18,708
Mechanical tubing	4	13,852	1,369	2,879	4,379	22,482	3	486	46	3,336	3,871
Pressure tubing	...	2,492	...	11	233	2,736	1	...	3	...	4
Stainless pipe & tubing	4	5,248	159	996	1,786	8,193	10	2,375	1	...	2,386
Nonclassified pipe & tubing	21	...	...	225	896	1,142	...	...	...	30	30
Structural pipe & tubing	33	12,322	3,375	4,989	4,000	24,719	5	...	157	1,255	1,418
Pipe for piling	...	...	30	...	141	171	...	...	...	...	...
Wire-drawn	10	19,714	5,579	1,264	37,173	63,741	...	...	2,744	10,658	13,402
Black Plate	...	10,131	586	...	59	10,776	...	...	...	804	804
Tin plate	...	26,435	67,619	81	...	94,135	...	...	...	6,173	6,173
Tin free	...	30,685	10,471	...	139	41,294	...	...	...	14,607	14,607
Sheets-hot rolled	34	145,051	655,259	26,959	12,875	840,178	...	...	...	6,306	6,306
-cold rolled	22	178,974	117,597	2,646	9,522	308,761	...	...	100	7,482	7,582
Sheets & strip-galv.-hot dipped	...	117,228	32,125	28,405	26,648	204,407	5	...	1,435	19,878	21,318
-electrolytic	...	36,900	3,848	11,326	1,670	53,744	...	...	...	3,226	3,226
-all other metallic coated	...	42,159	12,374	2,706	12,506	69,745	8	...	1,681	1,185	2,874
-electrical	...	3,465	3,074	...	...	6,540	...	...	...	...	...
Strip-hot rolled	...	1,493	248	4	41	1,785	36	...	...	...	36
-cold rolled	...	3,205	2,600	2,151	1,202	9,158	...	...	...	3,389	3,389
Total Steel Mill Products	8,379	2,420,494	1,007,977	233,729	182,761	3,853,339	7,175	40,560	11,549	200,605	259,889
Carbon	8,251	2,299,235	997,193	225,364	164,068	3,694,111	7,165	23,214	11,253	199,124	240,756
Alloy	91	82,196	6,975	5,912	12,472	107,646	...	14,972	295	1,417	16,683
Stainless	37	39,063	3,809	2,452	6,221	51,582	10	2,375	1	64	2,450

Other Steel Products:											
Structural shapes, fabricated	1,213	13,294	2,561	5,547	3,570	26,186	26	541	408	384	1,359
Shapes-Cold formed	2	500	132	91	349	1,074	...	...	...	...	...
Sashes and frames	1,532	154	27	3	410	2,127	5	1	3	31	39
Rails - used	...	...	...	...	21,487	21,487	...	...	...	...	...
Railway track material	...	13	...	299	3,993	4,305	...	3	...	...	3
Wheels and axles+	...	1	...	...	646	646	...	...	...	...	...
Fence or sign posts	20	214	35	8	22	298	...	...	1	4	6
Wire-Nonmetalic coated	...	180	3	...	445	629	...	...	...	280	280
Wire rope	336	4,232	1,641	3,343	8,418	17,969	...	11	138	131	281
Wire strand	68	5,438	2,537	10	4,180	12,233	...	2	674	1,024	1,700
Wire springs	55	1,612	1,007	184	4,589	[illegible]447	...	3	9	438	451
Woven wire fabric	498	403	179	21	43	[illegible],143	...	...	...	77	78
Grill, netting & fencing	718	1,615	703	28	4,908	7,972	155	...	135	2,104	2,394
Nails and staples	415	43,943	24,527	1,077	33,828	103,790	25	5	2	851	883
Barbed wire	...	231	76	...	679	986	...	13	90	786	889
Bale ties & baling wire	...	24	...	...	4	28	...	...	...	...	...
Industrial fasteners	913	141,391	29,474	8,326	15,324	195,428	3	5	137	762	906
Architectural & ornamental work	106	23	...	...	7	137	...	...	...	...	...
Chains & parts	35	7,104	953	5,567	9,565	23,223	...	12	206	102	321
Cast steel rolls	...	133	...	...	24	157	...	...	3	...	3
Grinding balls	...	114	...	...	1,116	1,230	...	...	...	113	113
Conduit	...	3	...	...	11	15	...	...	...	86	86
Pipe & tube fittings	2,632	16,810	1,386	2,400	2,322	25,550	2	114	1	125	242
Total Other Steel Products	8,544	237,428	65,244	26,902	115,941	454,059	216	710	1,808	7,299	10,032
Total Steel Products	16,923	2,657,922	1,073,221	260,631	298,702	4,307,399	7,391	41,270	13,357	207,904	269,922
Iron Products & Ferroalloys:											
Cast iron tube, pipes, profiles & fittings	798	8,283	684	61	167	9,994	5	...	...	37	42
Malleable cast iron pipe fittings	224	8,033	905	465	424	10,050	...	...	...	194	194
Castings and forgings	3,517	6,736	5,909	456	8,752	25,369	...	...	1	538	540
Pig iron	...	...	...	...	1,692	1,692	...	...	...	...	...
Sponge iron	...	232	4	35,089	230	35,554	...	1	...	...	1
Ferroalloys	...	9,551	651	26,154	8,596	44,952	...	...	...	20	20
Total Iron Products & Ferroalloys	4,539	32,834	8,154	62,224	19,860	127,612	5	1	2	789	797
Grand Total	21,462	2,690,756	1,081,375	322,855	318,562	4,435,010	7,396	41,271	13,359	208,693	270,719
Iron and steel scrap	22,932	2,535	7	...	338,617	364,091	...	...	2,069	...	2,069

Table 23 (continued)

Imports of Iron and Steel Products by Customs District-1991

(Net Tons)

	GREAT LAKES–CANADIAN BORDER												
Products	Portland	St. Albans	Ogdensburg	Buffalo	Great Falls	Pembina	Duluth Mpls.	Milwaukee	Detroit	Chicago	Cleveland	St. Louis	Total
Steel Mill Products:													
Ingots, blooms, billets, slabs, etc.	...	14	1,790	55,904	3,057	8	...	3,984	42,206	5,110	57,193	...	169,266
Wire rods	382	20,699	73,214	126,008	...	...	...	1,132	164,319	3,872	5,513	815	395,955
Structural shapes (3" & over)	63	6,776	6,209	59,804	20	49,581	119	4,786	58,468	24,038	12,357	...	222,221
Steel piling	...	3,119	1,900	990	...	...	...	1,145	11,301	2,261	67	...	20,783
Plates- cut lengths	1	2,328	3,111	27,155	610	9,998	3,783	21,512	102,517	41,001	20,708	301	233,024
-in coils	21	762	347	31,790	1,674	58,551	1,240	23	78,237	47,642	31,716	...	252,003
Rails-standard	179	...	...	...	...	...	...	...	1,259	299	2,891	...	4,628
-all other	136	...	...	1	...	...	125	...	463	1,231	1,378	...	3,333
Railroad accessories	46	...	...	51	...	284	...	...	2,093	19	...	...	2,493
Bars-hot rolled	4	5,857	12,539	50,988	3,347	6,353	...	7,582	229,547	28,388	92,170	1,660	438,437
-shapes under 3"	...	2,132	1,375	18,501	...	2,575	10	146	27,173	981	557	46	53,495
-concrete reinforcing	23	628	403	4,006	303	9	...	...	1,214	...	...	...	6,586
-cold finished	11	1,028	2,311	26,522	35	...	232	927	18,265	17,429	1,722	...	68,482
Tool steel	...	584	1,327	8,385	...	...	20	43	7,007	4,078	1,113	...	22,557
Standard pipe	143	10,128	9,569	37,335	3,957	611	87	1	64,179	5,502	12,110	63	143,684
Oil country goods	...	...	...	4,767	464	69	...	...	740	337	131	...	6,508
Line pipe	...	...	9	100,498	1,643	44,773	252	376	733	738	574	...	149,596
Mechanical tubing	32	1,735	2,668	12,154	636	257	46	2	24,218	2,547	2,196	...	46,489
Pressure tubing	...	5	15	655	76	...	...	1	40	271	9	...	1,072
Stainless pipe & tubing	90	69	1,121	1,093	4	...	5	108	2,705	1,048	1,009	12	7,264
Nonclassified pipe & tubing	398	1	107	382	272	7	...	...	480	...	2	...	1,648
Structural pipe & tubing	31	3,573	6,334	42,090	677	2,082	...	...	106,043	281	9	17	161,137
Pipe for piling	19	...	3	6,560	564	...	...	...	166	...	...	...	7,311
Wire-drawn	10,269	28,178	39,465	35,885	...	22	842	1,459	39,941	41,010	2,254	3,003	202,327
Black Plate	...	66	...	1,832	...	...	...	...	12,822	15,488	24,335	...	54,543
Tin plate	...	...	99	43,136	...	...	...	...	29,803	30,954	10,896	2	114,889
Tin free	...	...	...	13,925	...	...	...	...	15,013	604	1,358	...	30,900
Sheets-hot rolled	...	2,259	2,870	105,524	221	20,804	16,519	25,993	317,650	130,067	136,726	618	759,251
-cold rolled	4	10,904	2,067	54,823	...	23	4,847	21,817	233,807	233,468	54,053	863	616,676
Sheets & strip-galv.-hot dipped	...	1,457	2,241	75,300	...	133	...	688	252,498	43,809	42,522	3	418,651
-electrolytic	28	...	283	3,895	...	...	...	42	40,319	5,582	6,955	96	57,201
-all other metallic coated	...	58	1,116	3,397	...	...	...	583	7,655	2,506	5,773	...	21,088
-electrical	...	...	1,046	514	...	...	...	...	4,997	7,683	1,956	...	16,196
Strip-hot rolled	...	2,082	788	21,392	6	1,497	...	37	56,933	308	1,287	...	84,330
-cold rolled	...	153	2,085	18,914	...	...	241	908	36,698	6,931	5,174	64	71,169
Total Steel Mill Products	11,877	104,595	176,411	994,175	17,568	197,636	28,368	93,293	1,991,508	705,482	536,715	7,565	4,865,192
Carbon	11,769	102,444	161,445	838,485	13,819	95,154	27,016	80,717	1,790,774	616,239	482,090	6,475	4,226,427
Alloy	18	2,028	10,503	131,532	3,709	102,471	1,107	11,809	184,315	64,586	49,003	699	561,779
Stainless	90	123	4,463	24,159	40	12	245	767	16,419	24,656	5,622	391	76,987

Other Steel Products:													
Structural shapes, fabricated	2,489	1,974	1,582	7,710	438	321	173	...	7,189	297	141	...	22,313
Shapes-Cold formed	...	47	76	223	...	...	...	1,681	409	88	85	...	2,610
Sashés and frames	25	444	418	2,280	6	133	...	...	1,708	105	18	...	5,137
Rails - used	1,034	445	15,625	18,164	...	21,432	19,447	...	4,893	...	...	...	81,040
Railway track material	85	12	217	358	614	2,171	46	...	834	...	2	...	4,340
Wheels and axles+	...	15	1,443	182	2	15,748	9,602	25	356	263	776	...	28,413
Fence or sign posts	1	...	1	14	31	1	1	...	29	83	13	2	175
Wire-Nonmetalic coated	19	123	20	7	...	...	1	...	252	124	4	37	587
Wire rope	975	204	655	665	69	60	66	...	1,638	5,147	570	1,603	11,652
Wire strand	1,680	5	312	555	1	...	506	11	1,897	1,387	87	449	6,890
Wire springs	5	293	587	6,499	3,998	3,741	34	28	126,376	1,479	4,387	69	147,498
Woven wire fabric	...	...	3	390	4	2	102	...	224	621	362	50	1,757
Grill, netting & fencing	2	438	254	2,911	52	8	166	...	2,020	1,329	631	6	7,817
Nails and staples	265	6,155	11,648	16,238	2	1	576	138	18,297	13,016	2,388	151	68,874
Barbed wire	...	...	54	...	...	...	...	...	8	...	...	...	61
Bale ties & baling wire	...	...	20	220	...	...	...	...	196	4	...	...	440
Industrial fasteners	1,076	2,134	24,801	13,423	683	219	25,631	1,838	68,203	90,632	20,213	4,339	253,193
Architectural & ornamental work	...	...	...	9	...	...	...	...	50	4	...	...	64
Chains & parts	35	636	1,626	1,719	148	27	240	94	782	10,439	1,969	784	18,500
Cast steel rolls	...	...	...	12	...	...	9	...	12	848	...	...	880
Grinding balls	...	...	19	6,354	29	...	...	...	1,098	30	268	...	7,799
Conduit	...	...	2	...	...	...	...	...	1	1	...	...	3
Pipe & tube fittings	22	174	1,556	648	389	95	189	11	4,684	10,990	1,036	139	19,934
Total Other Steel Products	7,714	13,101	60,918	78,581	6,467	43,960	56,789	3,825	241,155	136,887	32,952	7,629	689,979
Total Steel Products	19,591	117,696	237,329	1,072,756	24,035	241,596	85,157	97,118	2,232,663	842,369	569,667	15,194	5,555,171
Iron Products & Ferroalloys:													
Cast iron tube, pipes, profiles & fittings	16	...	103	261	226	...	1	...	5	397	19	16	1,046
Malleable cast iron pipe fittings	...	42	121	314	15	1	51	...	424	1,083	260	219	2,528
Castings and forgings	107	2,095	2,785	2,360	596	4	93	20	2,350	7,094	848	1,309	19,662
Pig iron	...	864	1,165	7,403	...	...	...	26,330	7,209	3,307	7,818	...	54,096
Sponge iron	60	1,192	17,764	5,621	...	...	3	...	12,030	35,915	60	...	72,644
Ferroalloys	...	...	7,285	21,548	...	37	...	630	28,554	59,774	13,164	...	130,992
Total Iron Products & Ferroalloys	183	4,193	29,222	37,507	837	43	149	26,980	50,573	107,569	22,169	1,544	280,969
Grand Total	19,774	121,889	266,551	1,110,263	24,872	241,639	85,306	124,098	2,283,236	949,938	591,836	16,738	5,836,140
Iron and steel scrap	11,710	914	61,051	98,942	1,172	3,542	957	...	424,988	54,322	30,174	...	687,773

RAW STEEL PRODUCTION

Raw steel is defined as steel in the first solid state after melting suitable for further processing or sale, including ingots, steel for foundry castings and strand or pressure cast blooms, billets, slabs, or other product forms.

Raw steel production capability is defined as the tonnage capability to produce raw steel for a sustained full order book.

U. S. Raw Steel Production

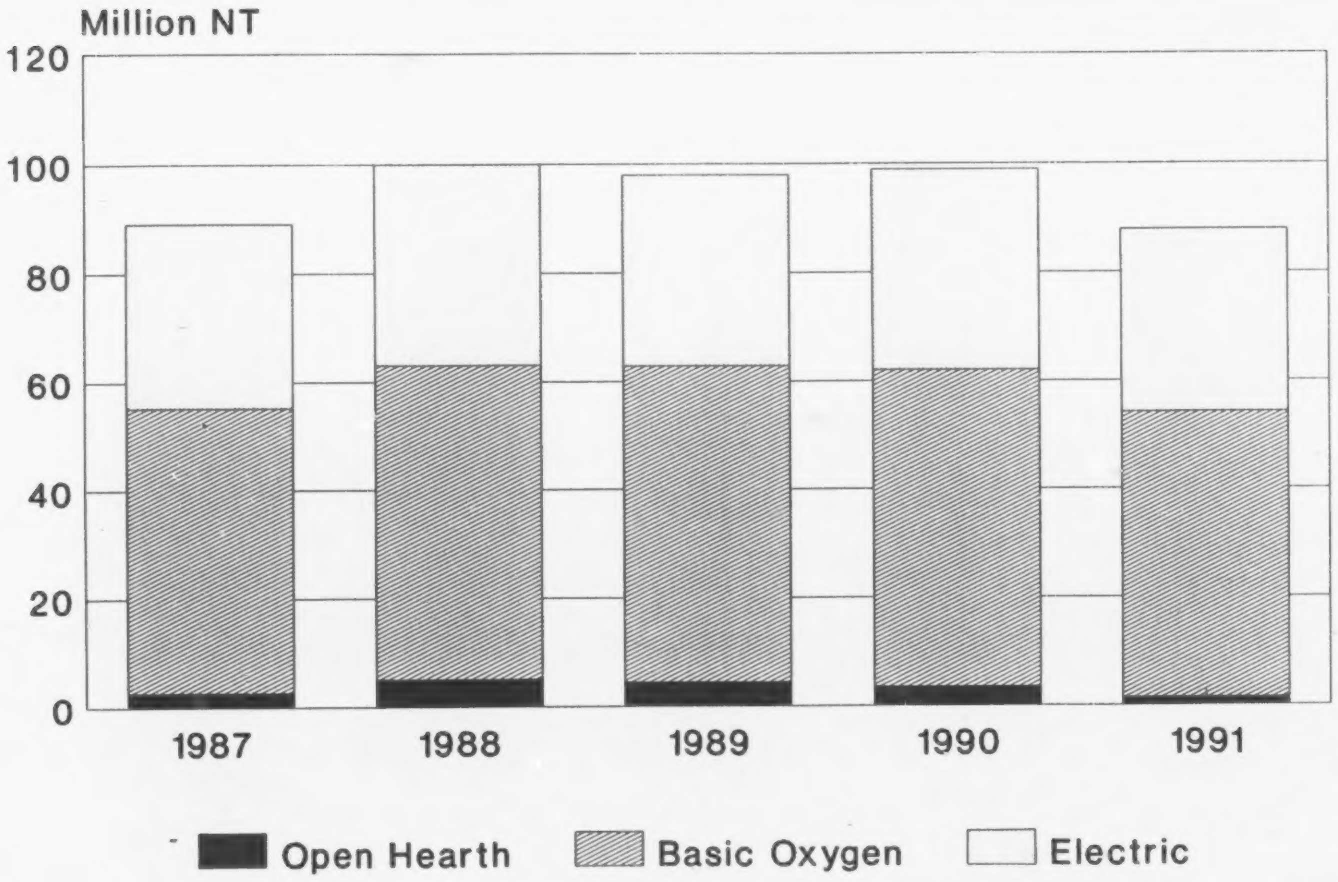


Table 24

Raw Steel Production by Type of Furnace, Grade and Cast

(Thousands of net tons)

	Open Hearth			Basic Oxygen Process			Electric			
Year	Carbon	Alloy	Total	Carbon	Alloy	Total	Carbon	Alloy	Stainless	Total
1991	1,407	2	1,408	48,895	3,819	52,714	27,577	4,319	1,878	33,774
1990	3,209	287	3,496	53,808	4,663	58,471	29,573	5,330	2,037	36,939
1989	4,229	213	4,442	53,677	4,671	58,348	28,325	4,902	1,926	35,154
1988	4,915	203	5,118	52,918	5,042	57,960	28,989	5,657	2,199	36,846
1987	2,652	14	2,666	48,536	3,960	52,496	26,788	5,173	2,028	33,989
1986	3,170	160	3,330	44,366	3,520	47,885	23,877	4,825	1,689	30,390
1985	6,005	423	6,428	47,688	4,197	51,885	23,006	5,257	1,683	29,946
1984	7,928	408	8,336	48,399	4,423	52,822	23,591	6,006	1,772	31,369
1983	5,703	248	5,951	48,115	3,934	52,050	19,965	4,900	1,750	26,615
1982	5,642	468	6,110	41,214	4,095	45,309	17,287	4,635	1,235	23,158

Table 24 (continued)

Raw Steel Production by Type of Furnace, Grade and Cast

(Thousands of net tons)

					Per Cent of Total						Production by Type of Cast		
	Total				By Grade			By Type of Furnace			(Thousands of net tons)		
Year	Carbon	Alloy	Stainless	Total	Carbon	Alloy	Stainless	OH	BOP	Electric	Ingots	Cont. Cast	Steel for Casting
1991	77,879	8,139	1,878	87,896	88.6	9.3	2.1	1.6	60.0	38.4	21,166	66,666	64
1990	86,590	10,279	2,037	98,906	87.5	10.4	2.1	3.5	59.1	37.4	32,189	66,643	74
1989	86,230	9,786	1,926	97,943	88.0	10.0	2.0	4.5	59.6	35.9	34,412	63,454	77
1988	86,823	10,902	2,199	99,924	86.9	10.9	2.2	5.1	58.0	36.9	38,615	61,232	77
1987	77,976	9,147	2,028	89,151	87.5	10.2	2.3	3.0	58.9	38.1	35,802	53,284	65
1986	71,413	8,505	1,689	81,606	87.5	10.4	2.1	4.1	58.7	37.2	36,487	45,064	55
1985	76,699	9,877	1,683	88,259	86.9	11.2	1.9	7.3	58.8	33.9	49,035	39,161	63
1984	79,918	10,838	1,772	92,528	86.4	11.7	1.9	9.0	57.1	33.9	55,787	36,669	74
1983	73,783	9,082	1,750	84,615	87.2	10.7	2.1	7.0	61.5	31.5	57,385	27,174	56
1982	64,143	9,198	1,235	74,577	86.0	12.3	1.7	8.2	60.7	31.1	52,875	21,628	74

Table 25

Raw Steel Production by States

(Thousands of net tons)

States	1991	1990	1989	1988	1987
Indiana	19,202	21,231	20,868	21,175	19,290
Ohio	14,210	16,769	16,506	17,662	16,267
Pennsylvania	9,379	12,049	11,870	13,673	11,609
Ala.,Tenn.,Ky.,Miss.,Ark	8,222	8,830	7,650	6,216	5,506
Illinois	7,167	7,810	7,515	7,758	7,141
Michigan	7,002	8,104	8,172	8,194	7,699
Va.,W.VA.,Ga.,Fla.,N.C.,S.C., La.	6,101	7,014	7,369	7,617	7,056
R.I.,Conn.,N.J.,N.Y.,Del.,Md	5,217	5,127	6,240	6,344	5,127
Ariz.,Col.,Utah,Wash.,Ore.,Ca.,Hawaii	4,851	5,405	5,267	4,950	3,093
Texas	4,052	4,065	3,996	3,967	3,668
Minn.,Mo.,Okla.,Nebr.,Iowa	2,494	2,502	2,491	2,367	2,695
Total	87,896	98,906	97,943	99,924	89,151

Table 26

Monthly and Quarterly Raw Steel Production and Capability Utilization

(Thousands of net tons)

Periods	1991		1990		1989		1988		1987	
	Net Tons	Capability Utilizaton* %	Net Tons	Capability Utilizaton* %	Net Tons	Capability Utilizaton* %	Net Tons	Capability Utilizaton* %	Net Tons	Capability Utilizaton* %
January	7,577	74.6	8,241	83.1	8,729	88.2	8,380	88.1	6,248	65.5
February	6,608	72.1	7,624	85.1	8,022	89.8	7,984	89.7	5,992	69.5
March	7,283	71.7	8,505	85.7	8,997	90.9	8,763	92.2	7,375	77.3
1st Quarter	21,468	72.8	24,410	84.7	25,762	89.7	25,141	90.1	19,619	70.8
April	7,089	72.5	8,209	85.2	8,738	92.2	8,398	91.4	7,402	80.3
May	7,076	70.0	8,529	85.7	8,633	88.1	8,832	93.1	7,641	80.2
June	7,017	71.7	8,142	84.5	8,171	86.2	8,031	87.4	7,349	79.7
2nd Quarter	21,182	71.4	24,880	85.2	25,542	88.8	25,261	90.7	22,391	80.1
First 6 Months	42,647	72.1	49,281	84.9	51,295	89.2	50,370	90.3	41,933	75.3
July	7,338	74.8	8,101	82.0	7,955	80.8	8,313	88.0	7,324	77.3
August	7,386	75.2	8,452	85.5	7,790	79.2	8,181	86.6	7,494	79.1
September	7,457	78.5	8,094	84.6	7,617	80.0	8,237	90.1	7,694	83.9
3rd Quarter	22,181	76.1	24,647	84.4	23,362	80.0	24,730	88.2	22,512	80.1
First Nine Months	64,791	73.4	73,942	84.6	74,693	86.2	75,075	89.6	64,587	77.1
October	7,711	78.0	8,424	85.1	8,175	83.0	8,332	87.7	8,073	84.4
November	7,461	78.0	8,021	83.8	7,386	77.4	7,883	85.8	7,882	85.2
December	7,348	74.4	7,422	75.0	7,222	73.3	7,954	83.8	7,916	82.8
4th Quarter	22,520	76.8	23,866	81.3	22,782	77.9	24,169	85.8	23,871	84.1
Second 6 Months	44,701	76.5	48,513	82.7	46,144	78.9	48,899	87.0	46,383	82.1
Year+	87,896	74.7	98,906	84.7	97,943	84.5	99,924	89.2	89,151	79.5

*Raw Steel production capability varies in each calendar quarter and aggregated 112.2, 112.0, 115.9, 116.7 and 117.6 million net tons for the full years 1987, 1988, 1989 1990 and 1991 respectively.

+Totals include adjustments not shown in monthly figures.

BASIC MATERIALS USED IN THE PRODUCTION OF IRON AND STEEL PRODUCTS

U. S. Blast Furnace Production

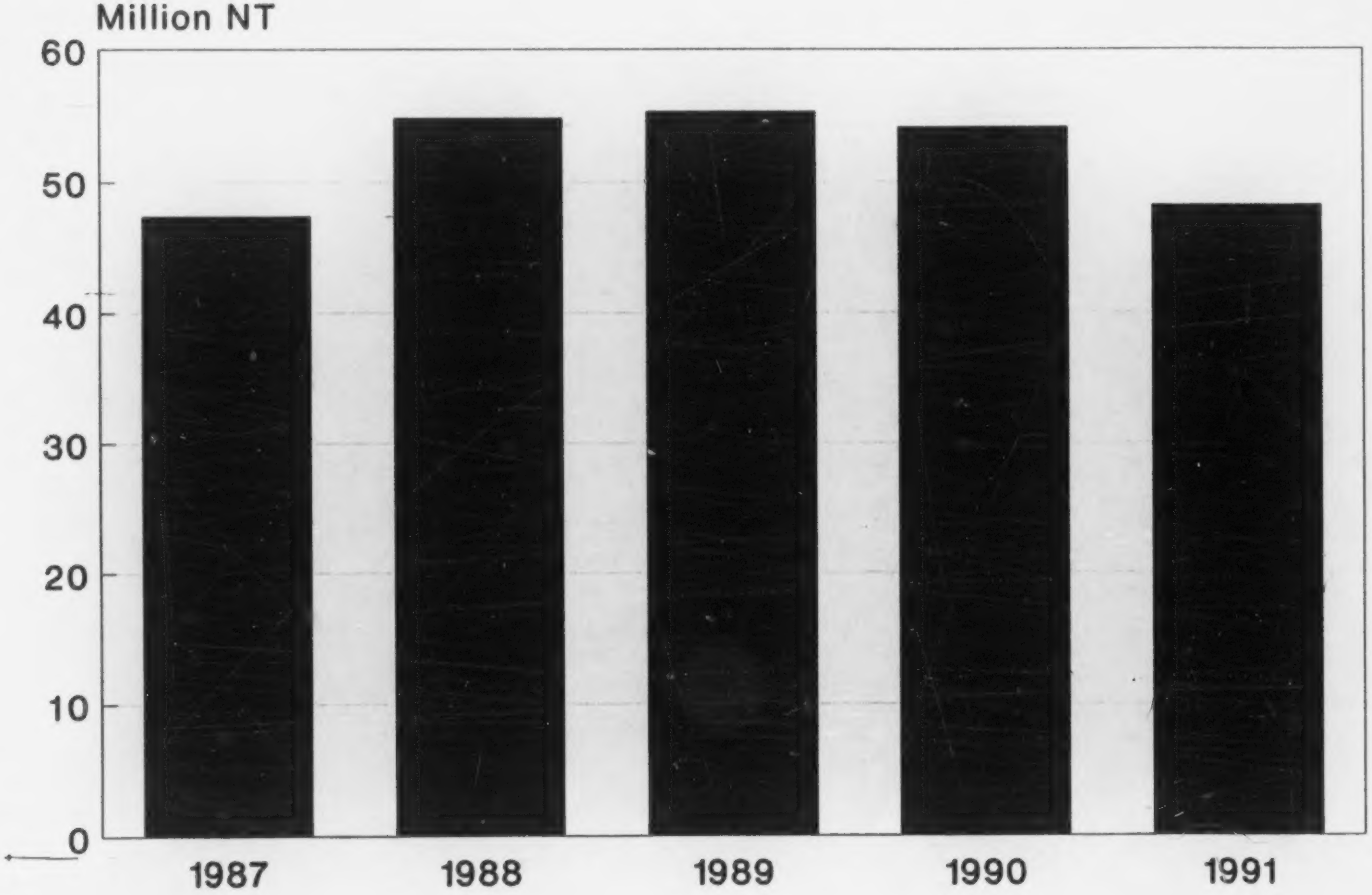


Table 27

Pig Iron Production, Consumption and Sales

(Thousands of Net Tons)

Year	Total Blast Furnace Production	Consumption		Outside Sales
		Steelmaking	Other than Steelmaking	
1991	48,637	48,154	232	106
1990	54,750	54,081	238	289
1989	55,873	55,299	414	298
1988	55,745	54,833	702	564
1987	48,410	47,413	315	668
1986	43,952	43,312	357	283
1985	50,446	49,547	619	435
1984	51,904	45,282	1,499	792
1983	48,706	45,783	868	658
1982	43,309	42,013	777	568

Table 28

Imports of Iron Ore By Countries of Origin

(Thousands of gross tons)

Country	1991p	1990	1989	1988	1987
Brazil	2,502	4,208	4,969	4,858	3,640
Canada	7,113	9,223	8,403	9,012	7,854
Liberia	...	...	197	126	979
Venezuela	2,719	3,448	4,165	3,512	2,580
Other	786	917	1,435	2,356	1,530
Total	13,120	17,796	19,169	19,864	16,583

Source: U.S. Bureau of Mines, Dept. of Interior

Table 29

Imports for Consumption of Manganese Ore by Countries of Origin (35 Percent or More MN)*

(MN content-Net tons)

Country	1991p	1990r	1989	1988	1987
Norway	9,780	14,242	...	...	...
Austrialia	18,172	35,873	60,436	39,324	48,747
Brazil	2,847	22,776	93,283	27,004	29,673
Gabon	88,182	74,766	109,637	146,654	88,413
Mexico	4,284	3,012	9,828	35,490	3,712
Republic of South Africa	...	10,977	21,618	...	...
Other Countries	5,312	2,534	3,684	94	31
Total	128,577	164,180	298,486	248,566	170,576

*Comprises ore received during the year for immediate consumption plus material withdrawn from bonded warehouses; excludes imports for manufacture in bond and export.

Source: U.S. Bureau of Mines, Dept. of Interior

Table 30

Consumption of Coal

(Thousands of net tons)

Year	Coke Production	Other*	Total
1991	27,367	1,282	28,649
1990	33,807	1,485	35,292
1989	33,708	1,926	35,634
1988	33,827	1,943	35,770
1987	30,578	1,960	32,538

*Includes coal consumed in generating electric power

Table 31

Consumption of Fluxes in Steelmaking

(Thousands of net tons)

Use	Flourspar	Limestone	Lime	Other Fluxes	Total
1991					
In Steelmaking Furnaces:					
Open Hearth	7	35	25	45	112
Basic Oxygen process	59	703	2,785	227	3,774
Electric	36	76	1,131	131	1,374
Total	102	814	3,941	403	5,260
1990r	124	752	4,526	530	5,932
1989	128	1,167	4,389	588	6,272
1988	137	955	4,916	793	6,801
1987	130	878	4,396	818	6,222

Table 32

Production and Consumption of Coke

(Thousands of net tons)

	1991	1990	1989	1988	1997
Production:					
Metallurgical	19,606	23,715	24,507	23,927	22,164
Other Coke	176	317	393	470	305
Total Production	19,782	24,032	24,900	24,397	22,469
Consumption:					
Blast Furnaces	24,798	27,498	29,175	29,442	25,476
Other	106	107	87	101	86
Total Consumption	24,904	27,605	29,262	29,543	25,562

Table 33

Consumption of Ore and Agglomerated Products

(Thousands of net tons)

	1991	1990	1989	1988	1987
Consumed in:					
Blast Furnaces:					
Natural Ore	2,114	2,733	3,539	5,682	2,972
Pellets	56,538	66,703	67,967	67,268	54,564
Sinter, briquettes, nodules and other	11,353	13,477	15,062	17,082	15,895
Total	70,005	82,913	86,568	90,032	73,431
Steelmaking Furnaces:					
Natural Ore	36	58	157	214	136
Pellets	44	55	84	97	48
Sinter, briquettes, nodules and other	6	14	...	...	46
Total	86	127	241	311	230
Total Consumption	70,091	83,040	86,809	90,343	73,661

Table 34

Scrap Consumption by Grade

(Thousands of Net Tons)

	1991p	1990r	1989	1988	1987
Carbon Steel:					
Low phosphorous plate and punching	480	1,140	443	433	326
Cut structurals and plate	1,729	1,596	2,300	1,803	1,329
No. 1 heavy melting steel	12,098	13,654	14,514	16,366	14,751
No. 2 heavy melting steel	4,057	4,646	4,392	4,622	3,839
No. 1 and electric furnace bundles	5,124	6,239	6,111	6,665	6,589
No. 2 and all other bundles	988	1,003	986	1,057	902
Turnings and borings	1,121	1,242	1,132	1,202	984
Slag scrap (Fe content)	2,784	3,177	3,202	2,830	2,430
Shredded or fragmentized	4,628	4,666	4,742	5,424	4,842
No. 1 busheling	1,435	1,652	1,915	2,186	2,031
All other carbon steel scrap	7,072	7,978	7,711	8,952	9,139
Total Carbon Steel	41,516	46,993	47,448	51,540	47,162
Stainless Steel	985	1,016	1,077	1,271	1,098
Alloy steel (excl. stainless)	782	874	812	1,003	965
Iron scrap	591	654	910	991	806
Other grades or types of scrap	1,377	1,417	1,443	1,473	1,633
Total Scrap*	45,251	50,955	51,688	56,277	51,665

*U.S. Bureau of Mines indicates numbers are understated.

Data may not add to totals due to rounding.

Source: U.S. Bureau of Mines, Dept. of the Interior

Table 35

Consumption of Scrap and Pig Iron
By Types of Furnaces

(Thousands of net tons)

Year		Consumed			Scrap Stocks on Hand Year End
		Scrap	Pig Iron	Total	
1991p	Open hearth	613	1,145	1,758	
	Basic oxygen process	14,540	47,186	61,726	
	Electric	26,886	7	26,893	
	Cupola	57	4	61	
	Direct castings	...	237	237	
	Blast	2,796	...	2,796	
	Other (incl. air furnace)	359	...	359	
	Total	45,251 ++	48,579	93,830	3,032
1990r	Open hearth	717	1,360	2,077	
	Basic oxygen process	16,515	53,015	69,530	
	Electric	30,327	15	30,342	
	Cupola	33	49	82	
	Direct castings	...	370	370	
	Blast	2,827	...	2,827	
	Other (incl. air furnace)	536	...	536	
	Total	50,955 ++	54,809	105,764	3,434
1989	Open hearth	947	1,744	2,691	
	Basic oxygen process	16,712	54,431	71,143	
	Electric	30,277	345	30,622	
	Cupola	...	49	49	
	Direct castings	...	275	275	
	Blast	3,314	...	3,314	
	Other (incl. air furnace)	436	10	446	
	Total	51,686 ++	56,854	108,540	3,516
1988	Open hearth	978	3,858	4,836	
	Basic oxygen process	17,822	52,027	69,849	
	Electric	34,208	248	34,456	
	Cupola	...	1,029	1,029	
	Direct castings	...	310	310	
	Blast	3,012	...	3,012	
	Other (incl. air furnace)	257	26	283	
	Total	56,277 ++	57,498	113,775	3,514
1987	Open hearth	1,137	+	1,137	
	Basic oxygen process	15,692	46,741	62,433	
	Electric	32,044	1,606	33,650	
	Cupola	16	118	134	
	Direct castings	...	460	460	
	Blast	2,345	...	2,345	
	Other (incl. air furnace)	432	40	472	
	Total	51,666 ++	48,965	100,631	3,835

Source: U.S. Bureau of Mines. +Included with electric.

++U.S. Bureau of Mines indicates this number is understated.

Table 36

Consumption of Electric Power

(Millions of kilowatt hours)

Year	Generated	Purchased	Total
1991	6,599	35,207	41,806
1990	6,771	37,355	44,126
1989	7,873	34,795	42,668
1988	6,869	36,566	43,435
1987	6,989	33,884	40,873

Table 37

Consumption of Oxygen

(Millions of cubic feet in gaseous form)

	1991	1990r	1989	1988	1987
Purchased	173,627	181,427	174,025	201,695	168,887
Produced (a)	12,985	17,989	18,924	19,947	16,703
Total	186,612	199,416	192,949	221,642	185,590
Used in:					
Blast furnaces	40,085	37,748	33,849	44,334	31,953
Steelmaking:					
Open hearth	2,494	5,825	7,467	7,937	3,867
Basic Oxygen process	101,396	112,720	112,579	127,383	112,594
Electric	29,556	27,233	20,882	19,923	18,875
Total Steelmaking	133,446	145,778	140,928	155,243	135,336
All Other	13,081	15,890	18,172	22,065	18,301
Total	186,612	199,416	192,949	221,642	185,590

(a) Produced on Companies owned or leased facilities.

NOTE: Oxygen consumed in liquid form was converted to its gaseous equivalent in these statistics.

Table 38

Consumption of Fuels

Year	Purpose Blast Furnaces	Steel Making Furnaces	Heating and Annealing Furnaces	Other	Total
	Fuel Oil (Thousands of gallons)				
1991	149,611	14,637	25,809	53,875	243,932
1990	163,397	28,556	31,973	78,074	302,000
1989	171,392	44,814	38,651	82,235	337,092
1988	127,013	54,488	50,883	77,659	310,043
1987	140,225	44,114	34,616	53,583	272,538

Table 38 (continued)

Consumption of Fuels

	Purpose					
Year	Blast Furnaces	Coke Oven Underfiring	Steel Making Furnaces	Heating and Annealing Furnaces	Other*	Total
			Natural Gas			
			(Millions of cubic feet based on 1,000 B.T.U. per cubic foot)			
1991	63,904	539	14,844	194,030	94,541	367,858
1990	56,723	599	15,905	202,496	117,936	393,659
1989	56,673	645	13,884	229,215	116,057	416,474
1988	52,046	695	20,469	255,338	111,025	439,573
1987	37,583	898	17,395	233,725	136,364	425,965
			Coke Oven Gas			
			(Millions of cubic feet based on 500 B.T.U. per cubic foot)			
1991	23,145	117,641	1,713	83,279	105,216	330,994
1990	22,033	137,976	3,851	93,377	131,546	388,783
1989	19,744	137,111	3,542	95,254	130,872	386,523
1988	21,695	139,502	3,924	99,760	130,769	395,650
1987	16,768	125,681	2,211	97,122	108,997	350,779
			Blast Furnace Gas			
			(Millions of cubic feet based on 95 B.T.U. per cubic foot)			
1991	786,406	15,483	...	11,470	1,087,519	1,900,878
1990	770,131	24,602	...	12,884	1,414,778	2,222,395
1989	854,545	22,870	...	25,736	1,471,819	2,374,970
1988	864,500	18,909	...	27,700	1,506,325	2,417,434
1987	860,067	14,044	...	38,217	1,414,387	2,326,715

* Includes Boilers and Heating.

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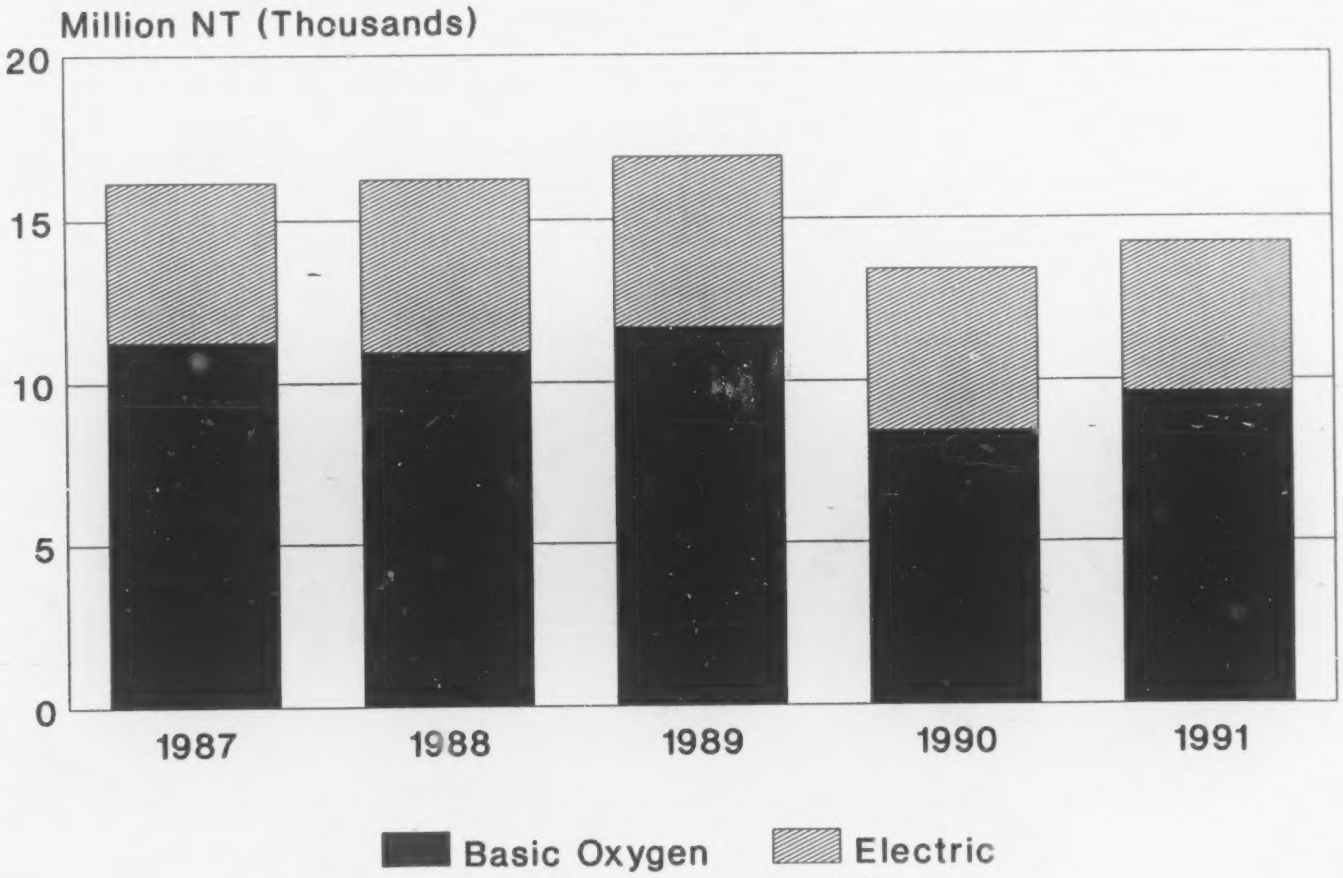
CANADIAN STATISTICS

Canadian Raw Steel Production



Canadian Net Shipments

of Rolled Steel Products

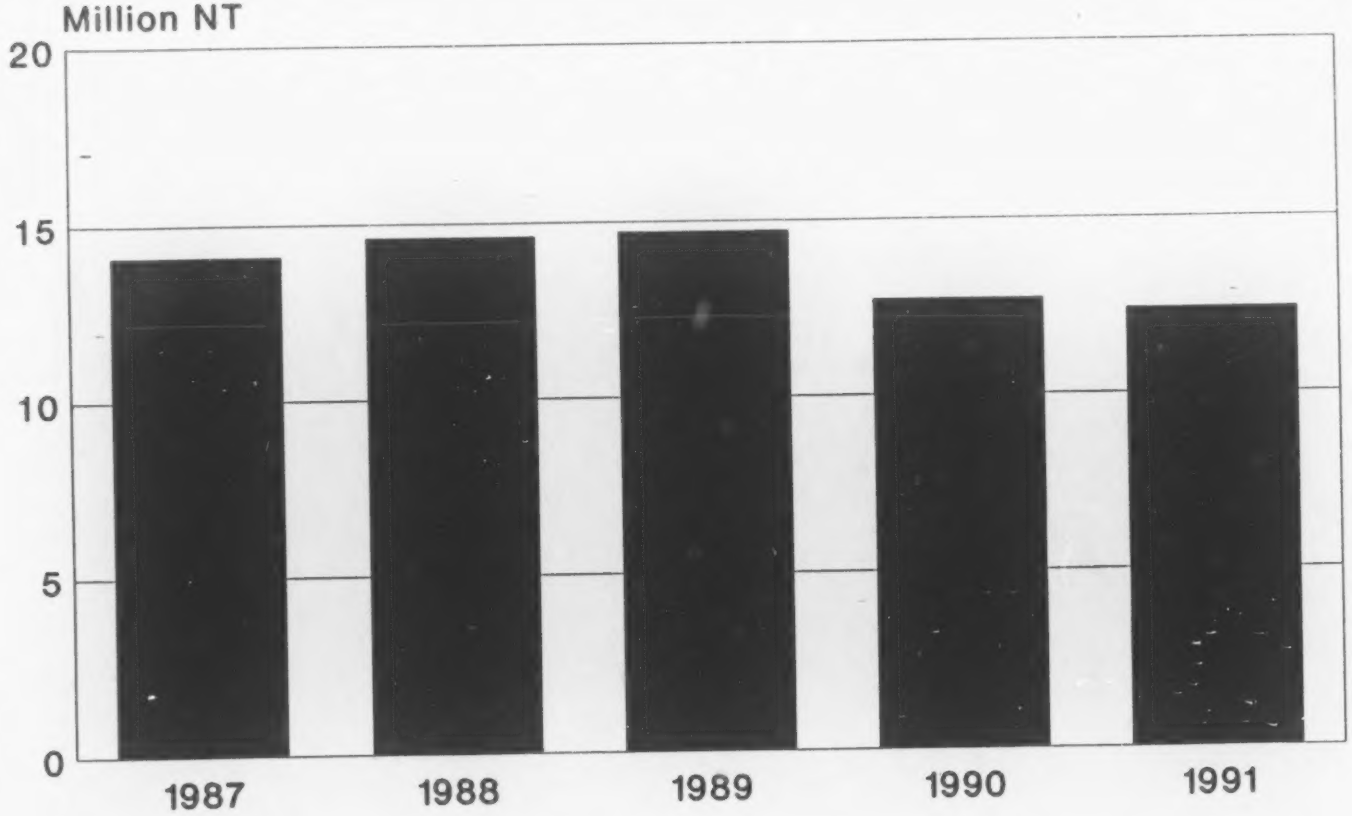


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Table 39

Income, Dividends, Return on Sales and Stockholders' Equity

(Millions of Canadian dollars)

(Reported by companies comprising 75.5% of 1991 Canadian Raw Steel Production)

	1991	1990r	1989	1988	1987
REVENUES:					
Sales (Net Billing Value of Products Shipped and other services)	$ 5,445.5	$ 5,726.4	$ 7,117.9	$ 6,124.7	$ 6,235.9
Interest, Dividends & Other Income	(4.4)	(90.7)	64.9	52.2	53.8
Total Revenue	$ 5,441.1	$ 5,635.7	$ 7,182.8	$ 6,176.9	$ 6,289.7
Costs Applied to Billings and Other Services:					
Employment Costs	{		2,169.4	1,823.6	1,978.9
Materials, Supplies, Freight and Other Services	{ 5,034.5	5,190.1	3,862.4	3,310.9	3,416.1
Depreciation, Depletion & Amortization	351.6	386.1	386.4	355.1	294.5
Interest & Other Financial Costs	274.1	273.0	230.5	164.8	175.0
Taxes Other than Income	124.0	130.0	...	...	26.4
Loss or (Gain) on Sales of Assets	...	(7.0)	...	...	4.6
Loss or (Gain) Attributable to Shutdown or Restructuring of Facilities	127.0	676.2	72.1	...	...
Unusual Items	52.8	759.0	...	...	...
Taxes on Income	(115.2)	(167.7)	130.7	171.6	133.3
Total Costs	$ 5,848.8	$ 7,239.7	$ 6,851.5	$ 5,826.0	$ 6,028.8
Extraordinary and Other Items Net of Taxes	93.0	21.0	...	(3.3)	5.0
NET INCOME	$ (314.7)	$ (1,583.0)	$ 331.3	$ 347.6	$ 265.9
Percent Return on Sales	(5.8)	(27.6)	4.6	5.7	4.3
Employees	32,600	35,400	40,500	40,700	40,800

Table 40

Balance Sheet

(Millions of Canadian Dollars)

Reported by companies comprising 75.5% of 1991 Canadian Raw Steel Production

ASSETS	1991	1990	1989r	1988	1987
Current Assets:					
Cash & Marketable Securities	$ 129.1	$ 22.9	$ 124.2	$ 155.4	$ 311.6
Receivables, Less Allowances	747.2	629.0	857.4	936.9	888.6
Inventories	1,587.6	1,771.2	2,112.2	1,831.2	1,550.2
Other Current Assets	64.0	37.0	6.7	6.1	26.1
Total Current Assets	2,527.9	2,460.1	3,100.5	2,929.6	2,776.5
Long-Term Receivables & Other Investments	214.8	256.5	198.3	188.7	337.1
Fixed Assets:					
Property, Plant & Equipment	9,077.8	8,991.1	8,477.4	8,128.0	8,472.2
Less-Depreciation, Depletion & Amortization	4,864.5	4,637.5	3,394.6	3,134.5	3,829.4
Net Fixed Assets	4,213.3	4,353.6	5,082.8	4,993.5	4,642.8
Other Assets	236.0	225.0	160.0	68.4	72.7
Total Assets	$ 7,192.0	$ 7,295.2	$ 8,541.6	$ 8,180.2	$ 7,829.1
LIABILITIES & STOCKHOLDERS' EQUITY					
Current Liabilities:					
Accounts Payable	$ 971.5	$ 988.5	$ 1,051.7	$ 943.5	$ 888.4
Accrued taxes incl. Federal Income Taxes	23.0	54.9	108.6	93.0	60.5
Long-Term Debt Maturing Within One Year	433.6	431.9	248.0	71.6	38.8
All Other Current Liabilities	31.6	61.0	31.6	28.9	35.4
Total Current Liabilities	1,459.7	1,536.3	1,439.9	1,137.0	1,023.1
Long-Term Debt Less Amount Maturing Within One Year	2,020.0	2,063.7	1,950.5	2,033.2	1,772.8
Deferred income Tax	639.2	723.1	989.9	*	*
Liabilities Attributable to Shutdown or Restructuring of Facilities	20.0	...	...	...	...
All Other Long-Term Liabilities & Reserves	296.7	269.5	391.3	1,439.6	1,138.0
Minority Interest in Companies not Wholly Owned	...	0.5	34.0	36.3	...
Total Liabilities	4,435.6	4,593.1	4,805.6	4,646.1	3,933.9
Redeemable Preferred Stock (RPS)	648.1	650.2	529.7	341.2	341.5
Stockholders' Equity	2,108.3	2,051.9	3,206.3	3,192.8	[illegible]553.7
Total Liabilities, RPS & Stockholders' Equity	$ 7,192.0	$ 7,295.2	$ 8,541.6	$ 8,180.2	$ 7,829.1

*Included in All Other Long-Term Liabilities & Reserves.

TABLE 41

Cash Flow Statement
Steel Segment

(Millions of Canadian Dollars)

	1991	1990
Cash Provided From Operations:		
Net Income	$ (314.7)	$ (1,583.0)
Depreciation	351.6	386.1
Deferred Income Taxes	(112.9)	(278.1)
Other Non Cash P&L Items	88.2	1,463.7
Total from Earnings	12.2	(11.3)
Changes in Working Capital	108.6	312.9
Cash Provided from Operations	120.8	301.6
Cash Provided (Used) for Non Operating Units	...	...
Cash (Used) for Dividends	(102.8)	(171.9)
Long-Term Investments:		
Additions to Plant & Equipment	(348.0)	(419.8)
Disposals of Plant & Equipment	1.0	...
Other Provided (Used)	104.1	(230.3)
Cash (Used) from Operations	(242.9)	(650.1)
Net Cash Provided (Used) from Operations	(224.9)	(520.4)
Cash Provided From (Used for) Financing		
Net Additions/Reductions In:		
Transfers (to) from Corporate	...	...
Long Term Debt	(63.2)	196.1
Short Term Debt	(62.0)	70.0
Stock	456.3	28.8
Net Cash Provided from (used for) Financing	331.1	294.9
Increase (Decrease) in Cash & Marketable Securities	$ 106.2	$ (225.5)

Table 42

Production of Pig Iron

(Net Tons)

Year	Pig Iron
1991	9,113,312
1990	8,097,636
1989	11,176,114
1988	10,469,936
1987	10,713,572
1986	10,194,655
1985	10,654,200
1984	10,629,765
1983	9,442,986
1982	8,818,564

Source: Statistics Canada

Table 43
Raw Steel Production

(Net Tons)

Year	Basic Oxygen Process*	Electric	Total	Steel for Castings **	Continuous Cast Inc. in Total
1991	9,614,501	4,599,855	14,214,356	101,692	11,961,836
1990	8,461,455	4,969,410	13,430,865	106,190	10,387,708
1989	11,693,580	5,207,370	16,900,950	138,557	12,963,568
1988	10,942,723	5,291,785	16,234,508	151,770	11,353,591
1987	11,262,068	4,855,940	16,118,008	126,639	7,953,948
1986	10,955,796	4,462,705	15,418,501	103,432	7,116,551
1985	11,633,276	4,385,334	16,018,610	116,293	7,037,419
1984	11,832,642	4,225,487	16,058,129	144,804	6,225,060
1983	10,379,595	3,650,893	14,030,488	114,752	5,292,981
1982	9,803,910	3,161,669	12,965,579	120,257	4,293,022

*Includes Open Hearth

**Includes only that portion of the steel for castings which was produced in foundries operated by companies producing steel ingots.

Source: Statistics Canada

Table 44

Net Shipments of Rolled Steel Products

(Net Tons)

Products	1991	1990	1989	1988	1987
Ingots and semifinished shapes	756,625	528,457	D	433,314	388,123
Rails and heavy structural shapes	383,718	377,250	587,685	625,454	678,843
Wire rods	1,032,071	1,134,789	1,301,338	1,279,211	1,281,499
Structural shapes intermediate	266,025	341,804	341,987	387,401	405,817
Bar sized shapes	95,331	131,826	155,593	230,535	236,446
Concrete reinforcing bars	614,479	780,165	822,221	718,125	723,556
Other hot rolled bars	1,011,581	1,122,549	1,353,427	1,376,153	1,316,790
Tie plates and track material	5,042	17,239	25,237	28,325	24,243
Plate (incl. plates for pipe & tube)	2,251,434	2,134,682	2,358,652	2,529,558	1,992,122
Hot rolled sheets & strip	2,915,223	2,888,531	3,569,827	3,125,045	3,246,182
Cold finished bars	109,094	125,645	138,828	171,310	157,802
Cold reduced sheets & strip, cold rolled other	1,223,407	1,330,177	1,586,169	1,663,477	1,578,544
Tin plate & T.F.S.	456,953	458,542	D	504,894	539,035
Galvanized sheets	1,272,838	1,374,350	1,611,294	1,545,374	1,483,977
Total net shipments	**12,393,821**	**12,746,006**	**14,689,038**	**14,618,176**	**14,052,979**

Table 44 (continued)

Net Shipments of Rolled Steel Products

(Net Tons)

Products	1986	1985	1984	1983	1982
Ingots and semifinished shapes	297,654	406,540	594,400	824,174	578,736
Rails and heavy structural shapes	605,989	586,312	573,348	505,527	454,257
Wire rods	1,255,526	1,154,729	1,199,146	1,129,709	989,851
Structural shapes intermediate	362,852	352,425	324,346	287,179	238,106
Bar sized shapes	208,597	195,410	181,368	140,442	127,372
Concrete reinforcing bars	603,881	622,082	523,279	580,257	598,187
Other hot rolled bars	1,203,713	1,253,544	1,208,846	937,983	830,121
Tie plates and track material	42,264	54,163	75,271	55,080	63,033
Plate (incl. plates for pipe & tube)	1,546,100	1,627,336	1,635,150	1,118,416	1,237,498
Hot rolled sheets & strip	3,130,728	3,020,767	3,047,059	2,328,771	2,203,371
Cold finished bars	144,003	130,642	135,967	99,227	75,258
Cold reduced sheets & strip, cold rolled other	1,560,742	1,559,933	1,521,493	1,396,012	1,339,205
Tin plate & T.F.S.	521,592	554,255	539,990	570,873	545,214
Galvanized sheets	1,371,207	1,336,334	1,182,101	1,046,692	1,025,365
Total net shipments	12,854,848	12,854,472	12,741,764	11,020,342	10,305,574

Source: Statistics Canada

Table 45

Imports of Iron and Steel Products

(Net Tons)

Products	1991	1990	1989	1988	1987
Steel Mill Products:					
Ingots, blooms, billets, etc.	162,538	305,589	720,625	1,479,448	799,904
Wire rods	217,176	205,784	266,840	223,730	275,971
Structural shapes (3" & over)	191,919	231,356	223,193	322,149	208,865
Sheet piling	5,921	5,329	14,357	9,981	3,970
Plates	372,940	464,065	298,809	379,977	224,489
Rail and track accessories	54,677	84,140	80,094	90,510	75,230
Concrete reinforcing bars	37,417	57,707	64,250	61,396	47,112
Bar shapes under 3"	24,123	30,084	23,881	43,486	58,853
Bars-hot rolled	216,942	265,123	156,508	240,277	120,479
-cold finished	35,976	36,599	36,721	28,530	19,886
Pipe and Tubing	445,498	387,742	316,652	507,144	310,550
Wire drawn	+	+	+	+	67,995
Barbed wire	399	972	775	859	1,227
Wire nails	22,039	16,543	18,342	28,199	19,282
Tin plate	26,430	10,099	6,024	5,244	3,308
Terne plate	9,612	13,557	9,727	13,232	11,094
Sheets-hot rolled	192,809	277,306	133,919	165,966	203,751
-cold rolled	190,550	181,301	153,222	195,354	248,130
Sheet & strip(coated incl. galvanized)	421,821	410,643	310,226	342,627	311,514
All other Sheet and strip	106,662	108,715	65,543	74,011	33,546
Total Steel Mill Products	2,735,449	3,092,654	2,899,708	4,212,120	3,045,156
Other Steel Products:					
Steel castings and forgings	N.A.	N.A.	N.A.	N.A.	18,232
Bars and rods, fabricated	N.A.	N.A.	N.A.	N.A.	5,748
Plates, flanged and dished	N.A.	N.A.	N.A.	N.A.	1,755
Plate, sheets and strip for saws	N.A.	N.A.	N.A.	N.A.	2,359
Plates, fabricated	N.A.	N.A.	N.A.	N.A.	3,974
Sheet and strip, fabricated	N.A.	N.A.	N.A.	N.A.	16,403
Structural shapes, fabricated	N.A.	N.A.	N.A.	N.A.	8,320
Wire rope & strand++	60,418	67,384	68,291	139,174	27,227
Grinding balls	53,505	55,146	51,314	54,147	50,218
Total Other Steel Products	113,923	122,530	119,605	193,321	134,236
Total Steel Products	2,849,372	3,215,184	3,019,313	4,405,441	3,179,392
Iron Products and Ferroalloys:					
Pig iron	25,572	20,440	16,744	31,058	10,796
Sponge iron	470	49	1,200	1,969	1,736
Castings and forgings	N.A.	N.A.	N.A.	N.A.	35,214
Pipes and tubes, cast iron	N.A.	N.A.	N.A.	N.A.	11,963
Ferroalloys	129,620	133,453	157,558	154,599	122,788
Total Iron Products and Ferroalloys	155,662	153,942	175,502	187,626	182,497
Grand Total	3,005,034	3,369,126	3,194,815	4,593,067	3,361,889

Source: Statistics Canada **+Included in other steel products wire rope. ++Includes wire drawn.**

Table 46

Exports of Iron and Steel Products

(Net Tons)

Products	1991	1990	1989	1988	1987
Steel Mill Products:					
Ingots, blooms, billets, etc.	338,406	360,740	30,551	198,767	114,742
Wire rods	378,795	395,521	457,564	374,289	392,580
Structural shapes (3" & over)	229,005	228,534	156,304	282,450	315,446
Plates	326,832	355,525	402,421	448,766	435,840
Rail and track accessories	175,208	80,839	97,917	174,017	190,204
Bars-hot rolled	275,971	337,322	442,771	551,258	388,296
-cold finished	50,154	40,300	47,864	84,401	49,062
Pipe and Tubing	592,266	436,185	509,732	520,159	532,858
Wire plain and coated	155,582	174,712	224,178	290,613	214,753
Wire nails	N.A.	N.A.	N.A.	83,523	83,969
Sheets and strip	2,333,569	1,561,928	1,500,855	873,677	1,214,529
Sheet and strip galvanized	247,246	216,027	224,548	182,327	277,826
Total Steel Mill Products	5,103,034	4,187,633	4,094,705	4,064,247	4,210,105
Other Steel Products:					
Bars and rods, fabricated	N.A.	N.A.	N.A.	N.A.	15,131
Grinding balls	N.A.	N.A.	N.A.	972	801
Castings and forgings	N.A.	N.A.	N.A.	7,810	38,504
Wire rope & strand	27,069	16,747	22,662	18,979	7,276
Total Other Steel Products	27,069	16,747	22,662	27,761	61,712
Total Steel Products	5,130,103	4,204,380	4,117,367	4,092,008	4,271,817
Iron Products and Ferroalloys:					
Pig iron	92,873	247,693	461,090	391,300	492,680
Sponge iron	N.A.	N.A.	N.A.	N.A.	57,270
Iron castings	N.A.	N.A.	N.A.	N.A.	114,297
Pipes and tubes, cast iron	N.A.	N.A.	4,330	5,573	3,763
Ferroalloys	72,438	83,062	62,136	70,245	67,547
Total Iron Products and Ferroalloys	165,311	330,755	527,556	467,118	735,557
Grand Total	5,295,414	4,535,135	4,644,923	4,559,126	5,007,374

Source: Statistics Canada

Table 47

Consumption of Coal

(Thousands of net tons)

Year	Total
1991	5,164
1990	5,371
1989	6,478
1988	6,788
1987	6,854

Table 48

Consumption of Coke

(Thousands of net tons)

Year	In Blast Furnaces	Total
1991	3,918	4,000
1990	3,250	3,253
1989	4,640	4,648
1988	4,487	4,490
1987	4,809	4,809

Table 49

Consumption of Fuel Oil

(Thousands of gallons)

Year	In Melting Furnaces	In Heating and Annealing Furnaces	Other Purposes	Total
1991	32,063	3,252	11,021	46,336
1990	42,694	2,192	13,076	57,962
1989	86,559	2,977	10,785	100,321
1988	54,908	6,943	16,176	78,027
1987	45,152	11,563	13,949	70,664

Table 50

Consumption of Fluxes in Steelmaking Furnaces

(Thousands of net tons)

	Flourspar	Limestone	Lime	Other Fluxes	Total
1991	12	13	669	135	829
1990	13	33	531	151	728
1989	17	65	744	266	1,092
1988	17	64	700	230	1,011
1987	20	57	700	217	994

Table 51

Consumption of Oxygen

(Millions of cubic feet)

	1991	1990	1989	1988	1987
Consumption by Uses:					
Blast furnaces	757	966	3,617	1,574	1,790
Steelmaking furnaces	19,728	18,083	24,388	22,223	22,328
All other	2,338	1,765	2,616	2,901	3,689
Total	22,823	20,814	30,621	26,698	27,807

Table 52

Consumption of Pig Iron

(Thousands of net tons)

Year	Steelmaking	Other Than Steelmaking	Total
1991	8,209	147	8,356
1990	7,128	117	7,245
1989	10,036	112	10,148
1988	9,525	91	9,616
1987	9,843	48	9,891

WORLD STATISTICS

The following tables covering production of foreign countries were compiled from reports issued by Statistics Canada, and the International Iron and Steel Institute.

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World Production of Raw Steel

Year 1991 % of Total World Production

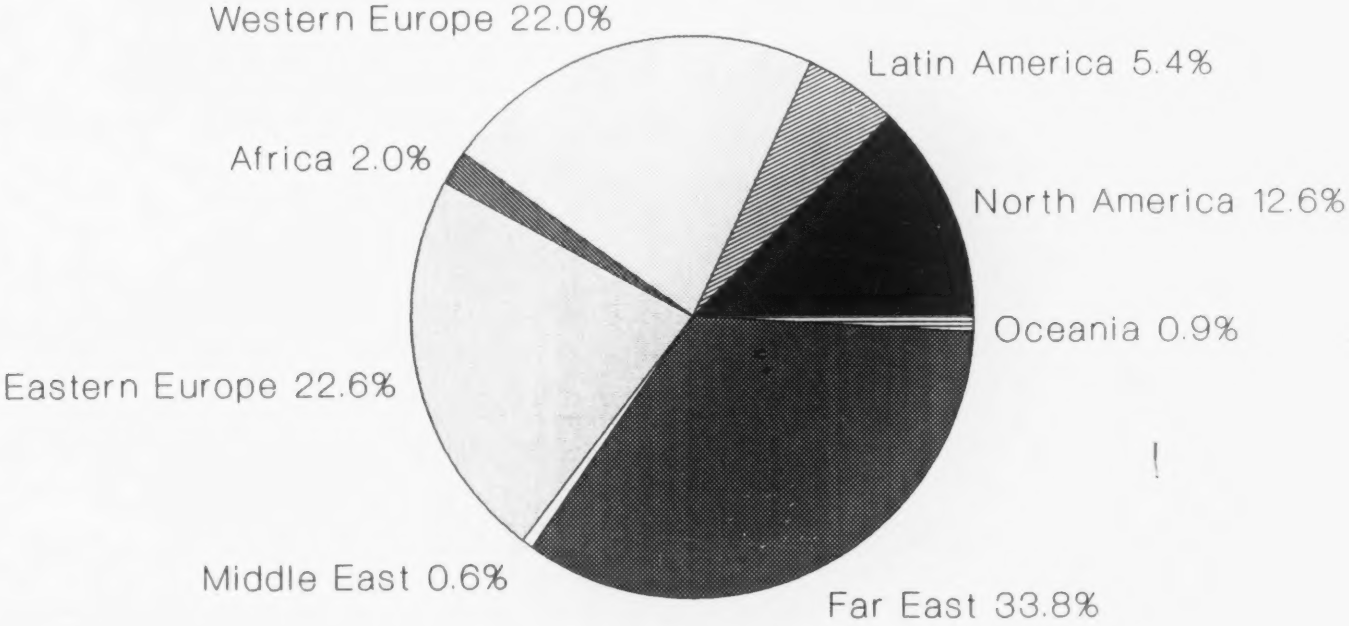

Table 53

World Production of Pig Iron by Countries

(Thousands of Net Tons)

	1991p		1990r		1989		1988		1987	
Countries	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
North America										
United States	48,637	8.7	54,750	9.4	55,873	9.3	55,745	9.5	48,410	8.7
Canada	9,113	1.6	8,202	1.4	11,176	1.9	10,470	1.8	10,714	1.9
Total North America	57,750	10.3	62,952	10.8	67,049	11.1	66,215	11.3	59,124	10.7
Latin America										
Argentina	1,584	...	2,208	...	2,391	...	1,830	...	1,931	...
Brazil	25,022	...	23,309	...	26,855	...	25,831	...	23,518	...
Chile	800	...	744	...	748	...	858	...	680	...
Columbia	335	...	356	...	327	...	349	...	359	...
Mexico	3,351	...	4,019	...	3,560	...	4,011	...	4,076	...
Paraguay	76	...	64	...	67	...	88	...	...	...
Peru	221	...	132	...	280	...	223	...	197	...
Venezuela	...	...	346	...	502	...	554	...	519	...
Total Latin America	31,389	5.6	31,179	5.3	34,731	5.8	33,744	5.7	31,281	5.6
Europe										
Western Europe										
EEC										
Belgium	10,312	...	10,382	...	9,836	...	10,124	...	9,082	...
Luxembourg	2,716	...	2,916	...	2,959	...	2,777	...	2,541	...
France	15,045	...	15,893	...	16,614	...	16,299	...	14,825	...
Italy	11,976	...	13,100	...	13,002	...	12,540	...	12,495	...
Netherlands	5,178	...	5,469	...	5,691	...	5,505	...	5,043	...
Portugal	277	...	374	...	416	...	601	...	584	...
Spain	6,161	...	6,044	...	6,101	...	5,171	...	5,308	...
F.R. Germany	34,167	...	33,183	...	36,130	...	35,773	...	30,992	...
United Kingdom	13,101	...	13,582	...	13,931	...	14,392	...	13,246	...
Total EEC	98,932	17.7	100,943	17.2	104,679	17.4	103,182	17.6	94,115	17.0
Other Western Europe										
Austria	3,792	...	3,806	...	4,214	...	4,040	...	3,804	...
Finland	2,570	...	2,517	...	2,518	...	2,395	...	2,274	...
Norway	67	...	60	...	298	...	405	...	401	...
Sweden	3,100	...	3,017	...	2,908	...	2,747	...	2,551	...
Switzerland	77	...	77	...	77	...	77	...	77	...
Turkey	5,065	...	5,322	...	3,867	...	4,918	...	4,484	...
Yugoslavia	1,396	...	2,550	...	3,194	...	3,214	...	3,161	...
Total Other Western Europe	16,067	2.9	17,348	3.0	17,075	2.8	17,796	3.0	16,753	3.0
Total Western Europe	114,999	20.6	118,291	20.2	121,754	20.2	120,978	20.6	110,868	20.0

Eastern Europe										
Bulgaria	1,213	...	1,260	...	1,636	...	1,636	...	1,825	...
Czechoslovakia	9,348	...	10,658	...	10,925	...	10,699	...	10,789	...
East Germany	*	...	2,380	...	3,011	...	3,071	...	3,024	...
Hungary	1,445	...	1,883	...	2,151	...	2,315	...	2,325	...
Poland	7,007	...	9,287	...	10,459	...	11,314	...	11,048	...
Rumania	5,182	...	7,007	...	9,977	...	10,472	...	10,472	...
U.S.S.R.	100,279	...	121,463	...	125,592	...	125,662	...	125,552	...
Total Eastern Europe	124,474	22.2	153,938	26.2	163,751	27.2	165,169	28.1	165,035	29.7
Total Europe	239,473	42.8	272,253	46.4	285,505	47.5	286,147	48.7	275,903	49.7
Africa										
Egypt	1,378	...	1,213	...	1,213	...	1,226	...	1,047	...
Zimbabwe	591	...	534	...	554	...	601	...	617	...
South Africa	7,682	...	6,899	...	7,212	...	6,802	...	6,963	...
Algeria	1,213	...	1,213	...	1,433	...	1,433	...	1,433	...
Tunisia	179	...	163	...	154	...	141	...	171	...
Other	22	...	22	...	22	...	22	...	22	...
Total Africa	11,065	2.0	10,044	1.7	10,588	1.8	10,501	1.8	10,529	1.9
Middle East										
Iran	2,152	...	1,397	...	276	...	276	...	276	...
Total Middle East	2,152	0.3	1,397	0.2	276	...	276	...	276	...
Far East										
India	15,630	...	13,942	...	13,309	...	12,912	...	12,040	...
Japan	88,187	...	88,456	...	88,400	...	87,407	...	80,929	...
Pakistan	1,003	...	1,003	...	1,003	...	998	...	998	...
South Korea	20,400	...	16,912	...	16,365	...	13,865	...	12,188	...
Taiwan	6,131	...	6,054	...	6,371	...	6,048	...	4,032	...
Thailand	11	...	11	...	11	...	11	...	11	...
China (Mainland)	74,051	...	69,026	...	64,154	...	56,217	...	55,335	...
North Korea	6,615	...	6,505	...	6,504	...	6,504	...	6,504	...
Total Far East	212,028	37.9	201,909	34.4	196,117	32.6	183,962	31.3	172,037	31.0
Oceania										
Australia	6,211	...	6,755	...	6,706	...	6,308	...	6,150	...
New Zealand	...	...	...	...	476	...	461	...	...	...
Total Oceania	6,211	1.1	6,755	1.2	7,182	1.2	6,769	1.2	6,150	1.1
Total World	560,068	100.0	586,489	100.0	601,448	100.0	587,338	100.0	555,024	100.0

NOTE: Detail does not necessarily add to totals. *Beginning 1991 included in F.R. Germany.

Source: United States-American Iron and Steel Institute; Canada-Statistics Canada;Other Countries-International Iron and Steel Institute.

Table 54

World Production of Raw Steel by Countries

(Thousands of Net Tons)

	1991p		1990r		1989		1988		1987	
Countries	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
North America										
United States	87,896	10.9	98,906	11.6	97,943	11.3	99,924	11.6	89,151	11.0
Canada	14,214	1.8	13,431	1.6	16,901	2.0	16,235	1.9	16,118	2.0
Total North America	102,110	12.6	112,337	13.2	114,844	13.3	116,159	13.5	105,269	13.0
Latin America										
Argentina	3,299	...	4,032	...	4,291	...	4,002	...	4,005	...
Brazil	24,936	...	22,676	...	27,576	...	27,179	...	24,502	...
Chile	888	...	851	...	896	...	991	...	800	...
Columbia	732	...	773	...	778	...	785	...	759	...
Cuba	221	...	298	...	370	...	346	...	443	...
Mexico	8,691	...	9,621	...	8,653	...	8,575	...	8,424	...
Peru	443	...	298	...	442	...	530	...	563	...
Venezuela	3,439	...	3,305	...	3,737	...	4,023	...	4,077	...
Others	725	...	598	...	623	...	651	...	615	...
Total Latin America	43,374	5.4	42,450	5.0	47,367	5.5	47,086	5.5	44,191	5.4
Europe										
Western Europe										
EEC										
Belgium	12,493	...	12,584	...	12,068	...	12,364	...	10,784	...
Luxembourg	3,725	...	3,925	...	4,102	...	4,036	...	3,640	...
Denmark	697	...	673	...	688	...	716	...	668	
France	20,324	...	20,965	...	21,315	...	21,078	...	19,503	...
F.R. Germany	46,493	...	42,375	...	45,275	...	45,220	...	39,956	...
Ireland	323	...	359	...	357	...	299	...	243	...
Italy	27,571	...	28,126	...	27,756	...	26,191	...	25,153	...
Netherlands	5,701	...	5,967	...	6,262	...	6,082	...	5,602	...
United Kingdom	18,163	...	19,670	...	20,657	...	20,889	...	19,195	...
Greece	1,097	...	1,158	...	1,056	...	1,057	...	1,000	...
Portugal	596	...	820	...	804	...	881	...	795	...
Spain	14,186	...	14,261	...	14,071	...	13,102	...	12,887	...
Total EEC	151,372	18.7	150,884	17.8	154,410	17.8	151,915	17.7	139,426	17.2
Other Western Europe										
Austria	4,615	...	4,731	...	5,201	...	5,026	...	4,741	...
Finland	3,186	...	3,153	...	3,220	...	3,084	...	2,942	...
Norway	495	...	422	...	702	...	1,003	...	938	...
Sweden	4,684	...	4,911	...	5,172	...	5,268	...	5,065	...
Switzerland	1,053	...	1,218	...	1,010	...	1,089	...	955	...
Turkey	10,293	...	10,278	...	8,655	...	8,799	...	7,765	...
Yugoslavia	2,753	...	3,978	...	4,960	...	4,946	...	4,814	...
Total Other Western Europe	27,078	3.3	28,691	3.4	28,920	3.3	29,215	3.4	27,219	3.4
Total Western Europe	178,450	22.0	179,575	21.2	183,329	21.2	181,130	21.1	166,645	20.5

Eastern Europe										
Albania	110	...	110	...	123	...	110	...	110	...
Bulgaria	1,878	...	2,404	...	3,196	...	3,175	...	3,355	...
Czechoslovakia	13,309	...	16,290	...	17,047	...	16,953	...	16,993	...
East Germany	*	...	6,137	...	8,630	...	8,965	...	9,086	...
Hungary	2,053	...	3,160	...	3,654	...	3,948	...	3,993	...
Poland	11,509	...	15,022	...	16,638	...	18,599	...	18,899	...
Rumania	7,819	...	10,754	...	15,890	...	15,778	...	16,493	...
U.S.S.R.	146,269	...	170,247	...	176,474	...	179,716	...	178,434	...
Total Eastern Europe	182,947	22.6	224,124	26.4	241,652	27.9	247,245	28.8	247,363	30.5
Total Europe	361,397	44.6	403,699	47.6	424,981	49.1	428,375	49.9	414,008	51.0
Africa										
Egypt	2,802	...	2,464	...	2,330	...	2,232	...	1,580	...
Algeria	922	...	915	...	1,149	...	1,556	...	1,690	...
South Africa	10,318	...	9,503	...	10,546	...	9,741	...	9,911	...
Others	1,800	...	1,200	...	1,184	...	1,170	...	1,160	...
Total Africa	15,842	2.0	14,082	1.7	15,209	1.7	14,699	1.7	14,341	1.8
Middle East										
Saudi Arabia	1,966	...	1,974	...	1,995	...	1,779	...	1,505	...
Iran	2,429	...	1,571	...	1,192	...	1,078	...	925	...
Others	864	...	881	...	865	...	800	...	780	...
Total Middle East	5,259	0.6	4,426	0.5	4,052	0.5	3,657	0.4	3,210	0.4
Far East										
India	18,075	...	16,497	...	15,905	...	15,773	...	14,463	...
Japan	120,889	...	121,653	...	118,948	...	116,492	...	108,591	...
South Korea	28,667	...	25,496	...	24,111	...	21,074	...	18,499	...
Taiwan	12,081	...	10,746	...	9,973	...	9,136	...	6,520	...
China (Mainland)	77,658	...	73,152	...	67,593	...	65,186	...	61,751	...
North Korea	7,718	...	7,718	...	7,639	...	7,529	...	7,418	...
Others	8,710	...	8,402	...	6,597	...	6,219	...	5,935	...
Total Far East	273,798	33.8	263,664	31.0	250,766	29.0	241,409	28.1	223,173	27.5
Oceania										
Australia	6,771	...	7,361	...	7,421	...	7,040	...	6,724	...
New Zealand	889	...	793	...	670	...	507	...	451	...
Total Oceania	7,660	0.9	8,154	1.0	8,091	0.9	7,547	0.9	7,175	0.9
Total World	809,440	100.0	848,812	100.0	865,310	100.0	858,932	100.0	811,367	100.0

NOTE: United States data excludes steel produced by foundries which report their output to the Bureau of Census, but not to American Iron and St
1991-n.a.;1990-1,136;1989-1,187;1988-1,013;1987-830;(in thousands of net tons). *Beginning 1991 included in F.R. Germany.

Source: United States-American Iron and Steel Institute; Canada-Statistics Canada;Other Countries-International Iron and Steel Institute.

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